

# Final EIR/EA

#### for the

# Imperial Solar Energy Center West

SCH #2010061037

Conditional Use Permit: CUP #10-0012

Variance: #V10-0007 BLM Right-of-Way: CACA-51644

EA Number: 2010-64

prepared for

County of Imperial 801 Main Street El Centro, CA 92243

and

Bureau of Land Management 1661 South 4<sup>th</sup> Street El Centro, CA 92243

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(bound with EIR/EA)

The following are contained on the CD, which is attached to the back of this EIR/EA.

Appendix B: Traffic Impact Analysis

Prepared by LOS Engineering, Inc.

August 2, 2010

Appendix C1: Construction Air Quality Conformity Assessment

Prepared by Investigative Science and Engineering, Inc.

August 18, 2010

Appendix C2: Construction Greenhouse Gas/Global Warming Risk Assessment

Prepared by Investigative Science and Engineering, Inc.

August 19, 2010

Appendix D: Geotechnical Investigation Report

Prepared by Landmark Consultants, Inc.

May 2010

Appendix E: Land Evaluation and Site Assessment

Prepared by BRG Consulting, Inc.

August 2010

Appendix F: Construction Acoustical Site Assessment

Prepared by Investigative Science and Engineering, Inc.

August 20, 2010

Appendix G1: Phase I Environmental Site Assessment

Prepared by Tetra Tech, Inc.

March 2010

Appendix G2: Phase II Environmental Site Assessment

Prepared by Tetra Tech, Inc.

April 2010

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Appendix H1: Preliminary CEQA Level Drainage Study

Prepared by Tory R. Walker Engineering, Inc.

October 4, 2010

Appendix H2: Preliminary Water Quality Report

Prepared by Tory R. Walker Engineering, Inc.

October 4, 2010

Appendix I-1: Biological Technical Report

Prepared by Recon Environmental, Inc.

November 9, 2010

Appendix I-1a: Mountain Plover Amendment to the Biological Technical Report

Prepared by Recon Environmental, Inc.

February 15, 2011

Appendix I-2: Spring 2010 Rare Plant Survey Report

Prepared by Recon Environmental, Inc.

July 23, 2010

Appendix I-3: Burrowing Owl Nesting Season Surveys

Prepared by Recon Environmental, Inc.

July 29, 2010

Appendix I-4: Post Survey Notification of Focused Survey for the Southwestern Willow Flycatcher

Prepared by Recon Environmental, Inc.

September 28, 2010

Appendix J: Project Design Features

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# FOREWORD

## **FOREWORD**

This Final Environmental Impact Report/Environmental Assessment (Final EIR/EA) for the proposed Imperial Solar Energy Center West project (SCH No. 2010061037) has been prepared in accordance with the requirements of the California Environmental Quality Act (California Public Resources Code Section 21000, et seq., [amended 2007 and 2008] herein, CEQA) and the State of California CEQA guidelines, as amended February 16, 2010 (California Administrative Code, Title 14, Section 15000, et seq.) as well as the National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq., herein, NEPA), the Council on Environmental Quality NEPA Regulations (40 C.F.R. Section 1500 et seq.), and the Bureau of Land Management (BLM) NEPA Handbook. The purpose of the Final EIR/EA is to provide the decision-making body, in this case the County of Imperial Board of Supervisors, the BLM responsible agencies, and the public with environmental impact information relative to the proposed Imperial Solar Energy Center West project. The County must consider the information contained in this Final EIR/EA prior to approving the proposed solar power project. The BLM must consider the information contained in the Final EA prior to making its decision whether to deny the proposed right-of-way grant, grant the right-of-way, or grant the right-of-way with modifications for the generation tie line of transmission line and proposed access road.

The Final EIR/EA contains all of the required contents as outlined in Section 15132 of the State CEQA Guidelines, including the following:

- The Draft EIR/EA or a revision of the Draft EIR/EA.
- Comments and recommendations received on the Draft EIR/EA either verbatim or in summary.
- A list of persons, organizations, and public agencies commenting on the Draft EIR/EA.
- The responses of the Lead Agency to significant environmental points raised in the review and consultation process.
- Any other information added by the Lead Agency.

Pursuant to Section 15088 of the State CEQA Guidelines, the County has reviewed all comments received on the Draft EIR/EA. Responses to these comments are presented in *Comments and Responses*, as a separately bound document of the Final EIR/EA.

Public and agency comments on the Draft EIR/EA and County responses to these comments are an important part of the CEQA process because they allow:

- Agencies and the public the opportunity to review and comment on the methods and analyses contained in the Draft EIR/EA.
- The ability to detect any omissions that may have occurred during the preparation of the Draft EIR/EA.
- The ability to check for accuracy of the analysis of the Draft EIR/EA.
- The ability to discover and respond to public concerns.

The Final EIR/EA includes revisions, including clarifications, corrections, and updated information based on these comments. These revisions to the original text are made in restatement (clean) format instead of in strikeout/underline format in order to enhance the quality of public and decision-maker review.

#### Standard For Recirculation/"Supplementation"

#### Recirculation

In light of the information provided in response to public review comments, the County considered the need to recirculate the EIR/EA pursuant to CEQA. CEQA Section 15088.5(e) requires that an EIR which has been made available for public review, but not yet certified, be recirculated whenever significant new information has been added to the EIR. The entire document need not be recirculated, if revisions are limited to specific portions of the document. The recirculated portions or document must be sent to responsible and trustee agencies for consultation and fresh public notice must be given in the manner provided for a draft EIR. New information is not presumed to be significant simply because it is new. Indeed, pursuant to State CEQA Guidelines Section 15088.5:

New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect . . . that the project's proponents have declined to implement.

State CEQA Guidelines, § 15088.5(a):

In order to be "significant," the new information must constitute one of the following:

- A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
- 2. A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
- A feasible project alternative or mitigation measure considerably different from other previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponent decline to adopt it.
- 4. The draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

(State CEQA Guidelines, §15088.5(a)(1)-(4); Laurel Heights II, 6 Cal.4th at 1120.)

The additional analyses provided in the Final EIR/EA as a separately bound volume, Response to Comments, elsewhere in the project documents, and any mitigation measures discussed or amplified in the responses to comments did not result in new or substantially increased significant impacts, and therefore no recirculation is required. It is common, and in most cases necessary, for responses to comments to amplify and elaborate on the analysis of an EIR/EA. CEQA anticipates this and such amplification does not

constitute significant new "information" unless it triggers one of the four categories described in State CEQA Guidelines Section 15088.5(a). State CEQA Guidelines Section 15088.5(b) provides that "recirculation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR." [emphasis added]. The responses to comments and associated analysis properly fall within State CEQA Guidelines Section 15088.5(b) and do not implicate State CEQA Guidelines Section 15088.5(a).

#### Supplementation

Under NEPA, "supplementation" is the term used to describe the process of recirculating a Draft EIS for additional public review and comment before drafting the Final EIS. According to the BLM NEPA Handbook, there is no supplementation process for an EA because if supplementation conditions exist for the Project, then the procedure is to prepare a new EA. (BLM NEPA Handbook at § 5.3.) The triggers for Supplementation are akin to CEQA's recirculation triggers and include:

- 1) Making substantial changes to the proposed action that are relevant to environmental concerns. (40 CFR 1509.2(c)(1)(i).) As BLM further explains "Substantial changes' in the proposed action may include changes in the design, location, or timing of a proposed action that relevant to environmental concerns (i.e., the changes would result in significant effects outside the range of effects analyzed in the draft or final EIS)" (BLM NEPA Handbook at § 5.3.1; emphasis added.)
- 2) Adding a new alternative that is outside the spectrum of alternatives already analyzed and not merely a variation on an alternative already analyzed. (BLM NEPA Handbook at § 5.3.)
- 3) There are significant new circumstances or new information relevant to environmental concerns and bearing on the proposed action or its effects (40 CFR 1502.9(c)(1)(ii).) As BLM explains, "New circumstances or information are 'significant' and trigger the need for supplementation if they are relevant to environmental concerns and bearing on the proposed action and its effects (i.e., if the new circumstances or information would result in significant effects that are outside the range of effects already analyzed) (BLM NEPA Handbook at § 5.3.1; emphasis added.)

# Changes To The Draft EIR/EA and Analysis Supporting No Recirculation/No Supplementation Decision

CEQA Guidelines §15088.5(d) provides that a decision not to recirculate an EIR must be supported by substantial evidence in the record. While the substantial evidence in the project documents is self-evident, the County chooses to identify some of the specific substantial evidence supporting its decision that the clarifications identified below do not trigger a recirculation.

#### Air Quality

Mitigation Measure (AQ1) for Air Quality has been revised to provide additional details/clarification on mitigating air quality impacts during construction. The additional details/clarifications would not result in a substantial increase in the severity of an environmental impact once mitigation measures have been implemented that reduce the impact to below a level of significance. Furthermore, the revised mitigation measure does not result in significant effects outside the range of effects analyzed in the draft or final

EIR/EA. No feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project.

#### Agricultural Resources

Concern was expressed in Section 2.1.3.12 of the Draft EIR/EA that there were unsettled diverse opinions regarding the agricultural impacts of solar projects generally. Subsequently, the County has adopted a policy to address agricultural impacts from renewable energy projects pending in the County's regulatory review process on a case-by-case basis.

In addition, the Department of Conservation (DOC) in comment letters and subsequent discussions with the County informed the County that the County may conclude that agricultural impacts from solar projects with an agricultural restoration plan are temporary impacts, instead of permanent impacts because, among other things, there is no permanent loss of valuable agricultural soils and backing the restoration plan with financial security ensures its implementation. In addition, DOC informed the County that it is appropriate to be more flexible in determining whether to agricultural conservation easements (and in-lieu mitigation fees to acquire agricultural conservation easements) when there is an agricultural restoration plan backed by financial security.

Consistent with this County policy, comment letters, and discussions with DOC, the County determined that the Project's agricultural impact was temporary and that the agricultural impact analysis should therefore be consistent with Project's agricultural restoration plan discussion in the Project Description at Section 2.1.3.12, which identified the plan as a project design feature. Therefore, the Agricultural impact section came to the same conclusion that any potential agricultural impacts were reduced to below a level of significance by requiring that the Project's private ground lease requiring restoration of the agricultural soils at the completion of the Project's term should be included as a MMRP and/or CUP condition with the additional requirement that the permittee post financial security to assure implementation of the plan. This clarification does not qualify as new "significant" information under any of the four State CEQA Guidelines § 15088.5(a) criteria. In order to be "significant," the new information must constitute one of the following:

(1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.

Here, the clarification regarding the temporary impact to agriculture is not a new significant environmental impact. Rather, it has been determined that the impact is of less significance than the permanent impact to agriculture described in the Draft EIR/EA. In addition, there are no new environmental impacts from the implementation of the agricultural restoration plan because the agricultural restoration plan was already proposed as a project feature in the Draft EIR/EA. It merely serves to clarify the mitigation that was already explicitly or implicitly implemented in the Draft EIR/EA. Simply adding or clarifying a new mitigation measures does not trigger recirculation. The mitigation measure must create a new significant adverse environmental impact that the public was deprived a meaningful opportunity to comment on.

- (2) A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
  - Again, the clarification regarding the temporary impact to agriculture is not an increase in the severity of an environmental impact. Rather, it is clarification of a decrease in the severity of the agricultural impact described in the Draft EIR/EA from permanent to temporary. Furthermore, clarifying that the agricultural restoration plan requirement in the Project's privately enforceable lease would also be a publicly enforceable MMRP condition backed by financial security serves to reduce any potential temporary impact to a level of insignificance.
- (3) A feasible project alternative or mitigation measure considerably different from other previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponent decline to adopt it.
  - Clarifying that the agricultural restoration plan from the private ground lease term would also be a publicly-enforceable MMRP condition with a financial security condition makes the plan more enforceable, but is not considerable different since the restoration plan has always been a feature of the Project. Furthermore, the project proponent has not declined to adopt the MMRP condition.
- (4) The draft EIR/EA was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

The Draft EIR/EA includes a comprehensive discussion of the Project's agricultural impacts, but clarification was needed to fully account for how the agricultural restoration plan would prevent a permanent loss of valuable agricultural soils. In addition, meaningful public review and comment were not precluded. Section 2.1.3.12 identified the Project's agricultural restoration plan, identified the Department of Conservation's comments suggesting how agricultural restoration plans could affect a solar project's agricultural analysis and provide flexibility in whether or not other forms of agricultural mitigation were even necessary. Section 2.1.3.12 also identified that the County's net agricultural production would not be impacted because the Project's indirect impact would be to displace the need for the Imperial Irrigation District to fallow as many other farmland acres to meet its water conservation needs. Another public comment letter expressed skepticism that the agricultural restoration plan could restore the soils. As DOC has opined that agricultural restoration plans are feasible mitigation and the County has conditioned the applicant to provide financial security to implement the agricultural restoration plan, these comments have been addressed. In short, CEQA's review and comment process worked to further clarify the agricultural impacts and improve the agricultural mitigation measure, not reveal a new adverse environmental impact from a project change or feasible mitigation measure that the project proponent declined to adopt.

None of the triggers of State CEQA Guidelines Section 15088.5(a) have been implicated. The discussion of the agricultural impacts in the Final EIR/EA provides greater clarity and detail to the analysis that was

included in the Draft EIR/EA. Furthermore, as discussed below none of the three triggers for Supplementation in the BLM NEPA Handbook are implicated.

- 1) Making substantial changes to the proposed action that are relevant to environmental concerns. (40 CFR 1509.2(c)(1)(i).) The clarifications to the Agricultural impact analysis are not substantial because they do not result in significant effects outside the range of effects analyzed in the Draft EIR/EA. First, it is within the range of environmental effects analyzed in the Section 2.1.3.12 of the Project Description's discussion of the Project's agricultural restoration plan. Second, there is no increase in environmental effects from making it more it explicit in the MMRP condition what was implicit in the Project Description that an agricultural restoration plan would restore the site's agricultural soils resulting in a temporary impact that was further mitigated by adding a financial security requirement.
- 2) Adding a new alternative that is outside the spectrum of alternatives already analyzed and not merely a variation on an alternative already analyzed. (BLM NEPA Handbook at § 5.3.) The EIR/EA does not add a new project alternative that is outside the spectrum of alternatives already analyzed.
- 3) There are significant new circumstances or new information relevant to environmental concerns and bearing on the proposed action or its effects (40 CFR 1502.9(c)(1)(ii).) The clarifications to the Agricultural impact analysis are not "significant" because they do not result in significant effects outside the range of effects analyzed in the Draft EIR/EA. First, it is within the range of environmental effects analyzed in the Section 2.1.3.12 of the Project Description's discussion of the Project's agricultural restoration plan. Second, there is no increase in environmental effects from making it more it explicit in the MMRP condition what was implicit in the Project Description that an agricultural restoration plan would restore the site's agricultural soils resulting in a temporary impact that was further mitigated by adding a financial security requirement.

#### **Public Review**

Both the BLM and the County, as the NEPA and CEQA Lead Agencies, respectively, have taken and will take several steps to ensure that all interested parties have an opportunity to comment on the agricultural restoration plan specifically and any changes to the Draft EIR/EA generally.

First, the agricultural restoration plan was described as a project design feature in the Draft EIR/EA. In accordance with Article 7, EIR Process, of the State CEQA Guidelines (Section 15087 et. seq.), the Draft EIR/EA was submitted to the Governor's Office of Planning and Research, State Clearinghouse, and circulated for a 50-day public review period from November 22, 2010 to January 10, 2011. The Draft EIR/EA and its Appendices were available for public review online at <a href="http://www.icpds.com">http://www.icpds.com</a> and <a href="http://www.blm.gov/ca/st/en/fo/elcentro.htm">http://www.blm.gov/ca/st/en/fo/elcentro.htm</a> and at the following locations during the public review period:

County of Imperial	City of El Centro Public	IVC Library
Planning and Development Services	Library	380 E. Aten Road
Department	539 State Street	Imperial, CA 92251
801 Main Street	El Centro, CA 92243	
El Centro, CA 92243		
Palo Verde Valley District Library	Meyer Memorial Library-	Imperial Public Library
125 West Chanslor Way	Holtville Branch	200 W 9 <sup>th</sup> Street
Blythe, CA 92225	101 East Sixth Street	Imperial, CA 92251
	Holtville, CA 92250	
Imperial County Free Library		
1125 Main Street		
El Centro, CA 92243		

The Notice of Availability (NOA) of the Draft EIR/EA was also posted at the above locations. The NOA was mailed to various agencies and organizations and to individuals that had previously requested such a notice. Additionally, the NOA was published in the Imperial Valley Press on November 22, 2010.

Second, the comment letters received included comments relating to the agricultural restoration plan.

Third, the Final EIR/EA contains the revised text, which more explicitly clarifies that the agricultural restoration plan is a requirement of the project and establishes consistency with the analysis of the agricultural restoration plan provided in the Draft EIR/EA Section 2.1.3.12. The Final EIR/EA will be posted by the BLM for a 30-day review. The Final EIR/EA will be available for public review prior to public hearings on the project to give the public a complete opportunity to prepare further comments at future public hearings.

Fourth, the public will have further opportunity to comment at the Imperial County Planning Commission hearing on the Project, which will be publicly noticed in accordance with applicable laws.

Fifth, the public will have another opportunity to comment at the Imperial County Board of Supervisor's hearing on the Project, which will be publicly noticed in accordance with applicable laws.

Foreword

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# **EXECUTIVE SUMMARY**

## **EXECUTIVE SUMMARY**

## ES.1 Background and Project Overview

The Bureau of Land Management (BLM) is the Federal lead agency under the National Environmental Policy Act (NEPA) for this Proposed Action. The BLM's role in this project is to respond to an application from CSOLAR Development, LLC under Title V of the Federal Land Policy and Management Act (FLPMA; 43 United States Code [USC] 1701) for a right-of-way grant (ROW) to operate, maintain, and decommission an electrical transmission line and associated access on public lands. The BLM will decide whether to approve, approve with modification, or deny issuance of a ROW to CSOLAR for the Imperial Solar Energy Center West project. The Proposed Action consists of three primary components: 1) the construction and operation of the 250 Megawatt Imperial Solar Energy Center West solar energy facility; 2) the construction and operation of the electrical transmission lines that would connect from the solar facility to the existing Imperial Valley substation; and, 3) proposed construction of an access road that traverses within the proposed transmission line right-of-way on BLM lands. The Proposed Action would utilize solar technology to convert sunlight directly into electricity. As part of the project, the solar facility would interconnect to the utility grid at the 230 kV side of the Imperial Valley Substation via an approximately five-mile long transmission line. The proposed right-of-way (ROW) for the electrical transmission line corridor would be 120feet wide. The proposed dirt access road traverses BLM lands and would be approximately 20 feet wide and 25,080 feet long. The site of the solar energy facility is located in Imperial County, Southern California on approximately 1,130 acres of fallow agricultural land, in the unincorporated Seeley area of the County. This is approximately eight miles west of the City of El Centro and south of the community of Seeley. The proposed transmission lines and the proposed access road would be located within the Yuha Desert, and within BLM's Utility Corridor "N" of the California Desert Conservation Area plan (the CDCA Plan).

## ES. 2 Purpose and Need

#### Bureau of Land Management

In accordance with FLPMA (Section 103(c)), public lands are to be managed for multiple uses in a manner that takes into account the long-term needs of future generations for renewable and non-renewable resources. The Secretary of the Interior is authorized to grant rights-of-way on public lands for systems of generation, transmission, and distribution of electric energy (Section 501(a)(4)). Taking into account the BLM's multiple use mandate, the purpose and need for the proposed action is to respond to a FLPMA ROW application submitted by CSOLAR to construct, operate, maintain, and decommission the proposed electrical transmission lines from the Imperial Solar Energy Center West facility to the Imperial Valley Substation, construction and use of proposed access road, and associated infrastructure on public lands administered by the BLM in compliance with FLPMA, BLM right-of-way regulations, and other applicable federal laws and policies. This proposed action would, if approved, assist the BLM in addressing the management objectives in the three authorities listed below.

In conjunction with FLPMA, BLM authorities include:

- 1. Executive order 13212, dated May 18, 2001, which mandates that agencies act expediently and in a manner consistent with applicable laws to increase the "production and transmission of energy in a safe and environmentally sound manner."
- The Energy Policy Act 2005 (EPAct), which sets forth the "sense of Congress" that the Secretary of the Interior should seek to have approved non-hydropower renewable energy projects on the public lands with a generation capacity of at least 10,000 MW by 2015.
- 3. Secretarial Order 3285A1, dated March 11, 2009 and amended on Feb 22, 2010, which "establishes the development of renewable energy" as a priority for the Department of the Interior.

#### Imperial County

The purpose of the Proposed Action, also called "Project Objectives" under CEQA, is to utilize Imperial County's abundance of available solar energy (sunlight) to generate renewable energy, consistent with the County General Plan renewable energy objectives. The following statements represent objectives of Imperial County and the project proponent. These objectives also provide a basis for identification of alternatives evaluated in the EIR/EA.

- Construct and operate a solar energy facility capable of producing 250 megawatts of electricity which would help meet the increasing demand for clean, renewable electrical power.
- Construct and operate a solar power facility in compliance with CEQA and the County's CEQA Guidelines, as well as any other applicable local, state, and federal standards.
- Operate a facility at a location that ranks amongst the highest in solar resource potential in the nation.
- Align transmission lines with existing lines contained within an existing utility corridor to minimize impacts to BLM land.
- Provides economic investment and diversifies the economic base for Imperial County.
- Reinforce Imperial County's position as a leader in the renewable energy world.
- Operate a renewable energy facility that does not produce significant noise, emit significant greenhouse gases, and minimizes water use.
- Meet the increasing demand for clean, renewable electrical power.
- Help reduce reliance on foreign sources of fuel, promotes national security, diversify energy portfolios, contribute to the reduction of greenhouse gas emissions and generate "green" jobs.
- The Project will contribute much needed on-peak power to the electrical grid in California.
- Help California meet its statutory and regulatory goal of increasing renewable power generation.
- Assist California in meeting its Renewable Portfolio Standard goals of 33 percent of electrical power retail sales by 2020 under pending legislation.

- Support U.S. Secretary of the Interior Salazar's Orders 3283 and 3285 making the production, development and delivery of renewable energy top priorities for the United States.
- Support the greenhouse gas reduction goals of Assembly Bill 32 (California Global Warming Solutions Act of 2006).
- Sustain and stimulate the economy of Southern California by helping to ensure an adequate supply of renewable electrical energy while simultaneously creating additional construction and operations employment and increased expenditures in many local businesses.
- Locate the solar energy generating facility on a site with the proximity and the ability to interconnect to the California Independent System Operator (CAISO) controlled transmission network.
- Locate the solar energy generating facility on a site with the ability to utilize a previously designated utility transmission corridor.

Imperial County is the lead agency for the Proposed Action pursuant to the CEQA. The proposed project site would be located on approximately 1,130 acres of fallow agricultural land in Imperial County, on nine legal parcels zoned General Agriculture (A-2), General Agricultural Rural Zone (A-2-R), and Heavy Agriculture (A-3). Pursuant to the County Land Use Ordinance, Title 9, Division 5, Chapter 9, "Solar Energy Plants" is a permitted use in the A-3 zone subject to issuance of a conditional use permit by the County of Imperial. ("Transmission lines, including supporting towers, poles, microwave towers, utility substations" are permitted uses within the A-3 Zone.") Pursuant to Title 9, Division 5, Chapter 8, "Solar energy electrical generator," "Electrical power generating plant," "Major facilities relating to the generation and transmission of electrical energy," and "Resource extraction and energy development," are uses that are permitted in the A-2 and A-2-R zone subject to approval of a Conditional Use Permit from the County of Imperial. Accordingly, the Proposed Action would require Imperial County to approve CSOLAR's Conditional Use Permit application so as to allow the construction and operation of the proposed solar project.

Additionally, the Proposed Action would require approval of a variance by Imperial County that would allow the proposed transmission towers to exceed the 120-foot height limit. The proposed transmission towers would be a maximum of 140 feet in height. No land use changes would be required in order to implement the Proposed Action.

## ES.3 Decisions to be Made

#### Bureau of Land Management

The BLM will decide whether to deny the proposed right-of-way, grant the right-of way, or grant the right-of-way with modifications. Modifications may include modifying the proposed use or changing the route or location of the proposed facilities (43 CFR 2805.10 (a)(1)).

#### Imperial County

The Proposed Action would require Imperial County to approve CSOLAR's Conditional Use Permit application so as to allow the construction and operation of the proposed solar project.

Additionally, the Proposed Action would require approval of a variance by Imperial County that would allow the proposed transmission towers to exceed the 120-foot height limit on the private land portions of the project. The proposed transmission towers would be a maximum of 140 feet in height. No land use changes would be required in order to implement the Proposed Action.

Imperial County will decide whether to deny the project proponents' Conditional Use Permit application, grant the application, or grant it with modifications. Imperial County will also decide whether to grant or deny the project proponents' request for a variance, or grant it with modifications.

#### ES.3(A) Comparison of Alternatives

The following alternatives are included and analyzed in Section 4.0 Environmental Consequences of this EIR/EA. The proposed use of the existing access road along the Westside Main Canal through BLM lands would be the same for each alternative.

#### **Proposed Action**

The Proposed Action for the transmission line corridor is described in detail in Section 2.1.4. The alignment of this alternative is shown on Figure 2-20. The Proposed Action parallels the proposed IID Dixieland corridor to the proposed IID substation north of the Imperial Valley Substation proposed route, through lands within Utility Corridor "N" of the California Desert Conservation Area plan. It is considered the Proposed Action as it would minimize impacts to BLM lands and cultural resources while also meeting the project objectives. This alternative would require the construction of a dirt access road within BLM lands; however, there is a possibility that CSOLAR and IID Dixieland will share this access road and minimize disturbance to the Yuha Desert. In addition, in some places relatively short (100-300 foot) spur roads are required. Also, this alternative would have the least impact on U.S. Army Corps of Engineers jurisdictional waters (non-wetland waters of the U.S.).

#### Alternative 1-Alternative Transmission Line Corridor

Alternative 1-Alternative Transmission Line Corridor for the proposed transmission line is shown on Figure 2-21. This alternative would be similar to the Proposed Action transmission corridor for a majority of the alignment; however, it is routed around two private parcels. (The Proposed Action would run through the private parcels should an easement be granted.) The Alternative 1-Alternative Transmission Line Corridor would avoid the private lands.

#### Alternative 2-Alternative Transmission Line Corridor

Alternative 2-Alternative Transmission Line Corridor for the proposed transmission line is shown on Figure 2-22. This alternative would be located further west than the transmission line corridor under the Proposed Action. This route parallels the Sunrise Powerlink, which is currently under construction, Southwest Powerlink, and

proposed Imperial Valley Solar Gentie. Under Alternative 2-Alternative Transmission Line Corridor, the Applicant would create spurs off the existing access road to access its proposed towers.

#### Alternative 3-Reduced Solar Energy Facility Site

Alternative 3-Reduced Solar Energy Facility Site is a reduced solar energy facility site. The primary intent of Alternative 3-Reduced Solar Energy Facility Site was to reduce direct impacts to cultural resources. At the time the Draft EIR/EA was prepared and circulated for public review, a conservative evaluation of the project's potential impacts to cultural resources indicated that the project could impact three sensitive cultural resources located within the solar energy facility site as compared to the Proposed Action. However, further refinement of the cultural resources evaluations for these sites subsequent to the commencement of the Draft EIR/EA public review period resulted in the determination that the three subject cultural resources sites lack integrity due to all of the farming and plowing that has occurred on the site over the previous 30-40 years. Therefore, these sites are not significant resources and implementation of this alternative would not reduce or avoid the impact to cultural resources for this reason.

In addition, under this alternative, the solar energy facility site size would be reduced by approximately 7 acres. This would equate to a nominal (approximately 3 megawatt) reduction of power generating capability. The transmission line corridor would be the same as is assumed for the Proposed Action. Figure 2-23 depicts Alternative 3-Reduced Solar Energy Facility Site Alternative.

#### Alternative 4-No Action/No Project Alternative

Alternative 4-No Action/No Project Alternative assumes that the solar facility and associated transmission lines would not be constructed. DOE would not issue a loan guarantee to CSOLAR Development LLC.

#### Alternative 5-Distributed Generation Alternative

Distributed generation refers to the installation of small-scale solar energy facilities at individual locations at or near the point of consumption (e.g. use of solar PV panels on a business or home to generate electricity for on-site consumption). Distributed generation systems typically generate less than 10 kW. Other terms for distributed generation include on-site generation, dispersed generation, distributed energy, and others.

Current research indicates that development of both distributed generation and utility-scale solar power will be needed to meet future energy needs in the United States, along with other energy resources and energy efficiency technologies (NREL). For a variety of reasons (e.g. upper limits on integrating distributed generation into the electric grid, costs, lack of electricity storage in most systems, and continued dependency of buildings on grid-supplied power), distributed solar energy alone cannot meet the goals for renewable energy development. Ultimately, both utility-scale and distributed generation solar power will need to be deployed at increasing levels, and the highest penetration of solar power overall will require a combination of both types (NREL, 2010).

Alternatives incorporating distributed generation with utility-scale generation, or looking exclusively at distributed generation, do not respond to the BLM's purpose and need for agency action in the Imperial Energy Center West EIR/EA. The applicable federal orders and mandates providing the drivers for specific actions being evaluated in the EIR/EA compel the BLM to evaluate utility-scale solar energy development.

The Energy Policy Act of 2005 (Public Law [P.L.] 109-58) requires the Secretary of the Interior to seek to approve non-hydropower renewable energy projects on public lands, with a generation capacity of at least 10,000 MW of electricity by 2015; this level of renewable energy generation cannot be achieved on that timetable through distributed generation systems. In addition, Order 3285A1 issued by the Secretary of the Interior requires the BLM and other Interior agencies to undertake multiple actions to facilitate large-scale solar energy production (Secretary of the Interior 2010). Accordingly, the BLM's purpose and need for agency action in this EIR/EA is focused on the siting and management of utility-scale solar energy development on public lands. Furthermore, the agency has no authority or influence over the installation of distributed generation systems, other than on its own facilities, which the agency is evaluating at individual sites through other initiatives. Therefore, this alternative is not under consideration with respect to the proposed project.

#### ES.3(B) Agency Preferred Alternatives

The County of Imperial's and BLM's preferred alternative is the Proposed Action.

### ES.4 Connected and Cumulative Actions

Connected actions are those actions that are closely related and should be discussed in the same document. (40 CFR 1508.25 (a)(1)). Actions are connected if they automatically trigger other actions that may require an EIS, cannot or will not proceed unless other actions are taken before or at the same time, or if the actions are interdependent parts of a larger action and depend upon the larger action for their justification. (40 CFR 1508.25(a)(i, ii, iii)).

Cumulative actions are proposed actions which potentially have a cumulatively significant impact together with other proposed actions and should be discussed in the same document. (40 CFR 1508.25(a)(2)).

#### ES.4(A) Connected Actions

No connected actions have been identified for the Proposed Action.

#### ES.4(B) Cumulative Actions

No cumulative actions have been identified for the Proposed Action.

## ES.5 Environmental Consequences

The County of Imperial has determined that an EIR is required pursuant to CEQA and the BLM has determined to follow the process of reviewing the project as required under the NEPA and will assess the project via an EA. In accordance with the CEQ NEPA Regulations, specifically 40 C.F.R. section 1501.4(c), an EA is used to evaluate impacts of the Proposed Action, and based on whether the impacts are adverse or not, determine whether the Proposed Action qualifies for a Finding of No Significant Impact or whether an Environmental Impact Statement must be prepared. The environmental issue areas or topics identified by the County and BLM as a result of input received on the Notice of Preparation (NOP) and scoping meeting for the project include the following: visual resources; land use; transportation/circulation; air

quality; greenhouse gas emissions; geology/soils and mineral resources; cultural resources; noise; agricultural resources; health, safety and hazardous materials/fire and fuels management; hydrology and water quality; biological resources; public services and utilities; paleontological resources; socioeconomics and environmental justice; recreation; special designations; and, cumulative impacts. These topics were analyzed in the Draft EIR/EA; comments on the Draft EIR/EA did not result in any new environmental issue areas that needed to be addressed.

This EIR/EA is a joint federal/state document prepared to comply with the requirements of both NEPA and CEQA. The CEQ NEPA regulations state that agencies must "[I]dentify environmental effects and values in adequate detail" (40 C.F.R. section 1501.2(b)). CEQA requires an EIR to identify significant environmental effects of the project. The Environmental Consequences subsections of this EIR/EA each contain NEPA indicators and CEQA criteria, which are used in this EIR/EA to: (1) provide a background for the NEPA analysis and help the reader to put the impacts to each resource in context, and (2) determine the significance under CEQA of each identified adverse effect. Table ES-1 presents a summary of the environmental impacts of the Proposed Action, mitigation measures that are proposed to reduce potential adverse or significant impacts of the Proposed Action, and the level of adversity or significance of each impact after implementation of proposed mitigation measures.

In accordance with CEQA Guidelines § 15004(b)(3) and the CEQ NEPA regulations, 40 C.F.R. § 1508.20, the applicant has incorporated design features, measures, and procedures into the description of its proposed project to avoid or reduce impacts from project construction and operation. These measures are referred to as Applicant Proposed Measures (APMs) in this document and are considered in the analysis of potential impacts and in the determination of significance.

New CEQ Guidelines confirm the use of a "mitigated Finding of No Significant Impact" (FONSI) that is based on an agency's commitment to ensure that the mitigation measures underpinning the FONSI are performed. (CEQ, "Appropriate Use of Mitigation and Monitoring[.]", January 12, 2011, p. 2). An EIS need not be prepared when an agency has committed to ensuring that the mitigation that supports the FONSI will be performed. (Id.). Agencies may commit to mitigation measures when they have the appropriate level of oversight authority over the contemplated mitigation measures (or external legal authority exists to ensure performance of the mitigation), and an expectation that resources sufficient to ensure that the mitigation is performed will be available. (Id., at p. 3). Accordingly, agencies should take steps to ensure that mitigation commitments are actually implemented. Consistent with the CEQ Guidance, mitigation commitments are well-documented in the EA, and a system for monitoring performance will be in place. Additionally, BLM will ensure that its decision is made conditional on the mitigation commitments. (Id., at p. 8). The BLM NEPA Handbook H-1790-1, section 8.3.6 states that "the mitigation measures that will be implemented are explicitly adopted in the decision record." The mitigation commitments are specified in terms of measurable performance standards, or in terms of expected results, so that the performance expectations are clear. (ld.). This includes a timeframe, so that the start date for mitigation is clear. (ld., at p. 9).

# ES.5(A) Mitigation, Monitoring And Reporting Program under CEQA

CEQA Section 21081.6(a) requires lead agencies to adopt a Mitigation, Monitoring, and Reporting Program (MMRP) to describe measures which have been adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment under CEQA. The specific "reporting or monitoring" program required by CEQA is not required to be included in the Draft EIR; however, it will be presented to the County Planning Commission and/or Board of Supervisors for adoption if the Proposed Action is approved. Throughout the EIR/EA, mitigation measures have been clearly identified and presented in language that will facilitate establishment of an MMRP. The MMRP would ensure compliance with the mitigation measures adopted by the County Board of Supervisors.

# ES.5(B) Analysis Assumptions Generally Used to Evaluate the Impacts of the Proposed Action

#### Affected Environment/Baseline Environmental Conditions Assumed in the Draft EIR/EA

The CEQ NEPA Regulations describe the requirement for an "affected environment" section in an environmental document as a description of "the environment of the areas(s) to be affected or created by the alternatives under consideration." 40 C.F.R. section 1502.15. Neither NEPA nor the CEQ NEPA Regulations contain a standard rule about the time frame for establishing baseline conditions (the conditions against which to measure the potential effects of implementing an Action). BLM Handbook Section 6.7.1. The BLM Handbook recommends that the EA "contain a brief description of the environment likely to be affected by the proposed action or alternatives, which should be limited "to that information relevant to understanding the effect(s) of the proposed action or alternative." BLM Handbook Section 8.3.5. The BLM Handbook references the affected environment as "the present condition of the affected resources within the geographic scope." BLM Handbook, Section 6.7.1.

Section 15125(a) of the CEQA Guidelines requires that an EIR include a description of the physical environmental conditions in the vicinity of the project as they exist at the time the Notice of Preparation is published. The CEQA Guidelines also specify that this description of the physical environmental conditions will normally serve as the baseline physical conditions by which a lead agency determines whether impacts of a project are considered significant.

The affected environment and environmental setting conditions of the project site and the surrounding area are described in detail in the technical sections of the Draft EIR/EA in Chapter 3. In general, these setting discussions describe the setting conditions of the project site and the surrounding area as they existed when the NOP for the project was released on June 11, 2010. In addition, the Draft EIR/EA also includes updated setting information since release of the NOP, such as the status of proposed and approved large-scale projects in the region.

#### General Plan Consistency Analysis

As required by CEQA Guidelines 15125(d), each technical section of the EIR (Chapter 4) has been evaluated for consistency with policies contained in the applicable Imperial County General Plan. "An

action, program, or project is consistent with the general plan if, considering all its aspects, it will further the objectives and policies of the general plan and not obstruct their attainment." Corona-Norco Unified School Dist. v. City of Corona (1993) 17 Cal.App.4th 985, 994 [emphasis added].

#### **Project Buildout Assumptions**

For most of the environmental impact sections of the EIR/EA, it is conservatively assumed that buildout of the site would be permanent. However, several of these impacts will be temporary (25-year lease). The land proposed for the solar energy facility is subject to a long-term lease agreement. Under the lease agreement, the applicant is required to restore the land to its current use at the end of the project term.

## ES.5(C) NEPA and CEQA Impact Summary Table

# Potentially Adverse Impacts under NEPA and Potentially Significant, Mitigable Impacts under CEQA

Implementation of the Proposed Action has the potential to result in direct, indirect or cumulative NEPA impacts and significant CEQA impacts as a result of the construction activities and operation of the project. Potentially adverse NEPA and significant CEQA impacts were identified in the original scoping process to the following environmental issue areas:

- Agriculture Resources
- Air Quality
- Greenhouse Gas Emissions
- Geology/Soils and Mineral Resources
- Cultural Resources

- Paleontological Resources
- Hydrology and Water Quality
- Hydrology and Water Quality
- Biological Resources
- Health, Safety and Hazardous Materials/Fire and Fuels Management

Through the analysis in the EIR/EA, it was determined that implementation of proposed Mitigation Measures identified in this EIR/EA would reduce the impact to these to a level less than significant under CEQA. Significance of an impact under NEPA is typically not presented in the NEPA document. BLM's decision, and rationale for its selection, is recorded in the decision document, as well as a written conclusion to identify whether the decision's impacts are significant.

#### Significant, Unmitigable Impacts Under CEQA

With implementation of the mitigation measures, all the impacts are below the indicators (also called thresholds under CEQA). No significant, unmitigable impacts under CEQA have been identified associated with the construction and operation of the Proposed Action.

### ES.5(D) Major CEQA Conclusions

Based on the analysis provided in the Final EIR/EA, implementation of the Proposed Action would result in impacts as result of the construction activities and operation of the project. Mitigation Measures have

been identified to reduce these impacts to a level less than significant under CEQA. As such, No significant, unmitigable impacts under CEQA have been identified associated with the construction and operation of the Proposed Action.

## ES.5(E) CEQA Areas of Controversy and Issues to be Resolved

The CEQA Guidelines Section 15123(b)(2) requires that areas of controversy known to the lead agency, including issues raised by agencies and the public, be identified in the EIR/EA's Summary. To determine the number, scope and environmental topics to be addressed in this EIR/EA, the Imperial County Planning and Development Services Department prepared a Notice of Preparation (NOP) and circulated the NOP on June 11, 2010 to interested public agencies, organizations, community groups and individuals in order to receive input on the Proposed Action. The NOP was circulated for the mandatory 30-day minimum public review period, which started on June 11, 2010 and ended on July 13, 2010. The NOP and the distribution list for the NOP are provided in Appendix A of this EIR/EA.

In addition to the State Clearinghouse transmittal letter, seven written comment letters and one email were received in response to the NOP. Agencies and entities that submitted written comment letters included the California Department of Transportation, the United States Marine Corps, the Imperial County Air Pollution Control District, the California Department of Conservation, the Department of Toxic Substances Control, the Imperial Irrigation District (IID), the Colorado River Board of California, and Californias for Alternatives to Toxics. Through the NOP process, the following areas of controversy were identified:

- Caltrans requirements for Utility Encroachment, such as line supports for overhead lines crossing freeways.
- Concern regarding dust emissions and control during construction and operation of the project.
- Concerns raised regarding potential impacts associated with the conversion of agricultural lands.
- Concern regarding possible use of herbicides for weed control at the solar generating facility.
- Concern regarding impacts to human health and/or the environment due to potential hazardous materials onsite (e.g., chemicals, asbestos, pesticides, and organic waste).
- Fiscal impacts to the County associated with the solar generating facility.
- Concerns raised regarding the Proposed Action's location within a military low-level training route and the potential impact including noise, vibrations, and interference from the overflight aircraft.
- Revisions to IID distribution circuits may be required to serve the Operations and Maintenance building proposed at the solar facility site.
- Concern that the IID facilities may potentially impact the Westside Main Canal.
- A new bridge may be required to cross the Westside Main Canal in order to access the site.
- Encroachment permit requirements for any construction or operation on IID property or within existing or proposed right of way easements.

- Project water requirements of IID.
- New, relocated, or reconstructed IID facilities required for the project need to be evaluated.

See Section ES.9 for discussion of the comments on the Draft EIR/EA.

### ES.5(F) Issues to be Resolved

The major unresolved issue relates back to the decisions to be made, as described in Section ES.3 above. The major unresolved issue is the decision to select a build or No Action/No Project alternative, and if a build alternative is selected, to determine whether the ROW grant, Conditional Use Permit and Variance should be granted relative to the Proposed Action or one of the alternatives.

## ES.6 Lead Agencies' Roles and Responsibilities

#### Bureau of Land Management

The solar energy facility is located approximately five miles northwest of the Imperial Valley Substation. The solar energy facility would interconnect to the utility grid at the 230 kV side of the Imperial Valley Substation. The Imperial Valley Substation is located within federal lands managed by the BLM. In addition, a 25,080 foot long and 20-foot wide (6.8 acres of disturbance), dirt access road is proposed for construction and maintenance access to the transmission line corridor and is located within BLM lands. Therefore, the project requires Right-of-Way (ROW) approval from the BLM. The project plans a 120-foot-wide ROW from the project site, along BLM land to the Imperial Valley Substation in order to accommodate the transmission corridor. The transmission line and access road right-of-way corridor, within BLM lands comprises approximately 67.33 acres. A temporary construction and transmission line spur roads right-of-way area within BLM lands for the transmission line comprises approximately 1.0 acre.

The following table describes the ROW acreage being requested from the BLM for the construction of the proposed access road, as well as use of existing utility corridor access road and transmission line spur roads outside of the 120-foot Transmission Line Corridor. To obtain the ROW approval, CSOLAR submitted a "Standard Form-299 Application for Transportation and Utility Systems and Facilities on Federal Lands" to the BLM. The proposed ROW for the transmission line corridor and access road would be within Utility Corridor "N" of the BLM's California Desert Conservation Area Plan (the Desert Plan). The BLM is the lead agency on this EA pursuant to a Memorandum of Understanding (MOU) between Department of Energy (DOE) and BLM signed in January 2010, and would use this EA to comply with NEPA and assist the decision making regarding whether or not to approve the proposed ROW.

Location	Transmission Line and Access Road ROW Area (acres)	Temporary Construction Area (acres)	Transmission Line Spur Roads Outside of 120' Transmission Line Corridor (acres)
Township 16 ½ South, Range 12 East,			_
Section 3, N ½	6.34	0	0.02
Township 16 South, Range 12 East,			
Section 34, SW 1/4	6.1	0	0
Section 33, S ½ and SW ¼ of NW ¼	0	0.03	0
Section 34, S ½ and SW ½ of NW ¼	15.84	0	0
Section 32, S ½	0	0	0.29
Section 32, N ½	15.47	0	0
Section 31, NE ¼, NE ¼	1.61	0	0.08
Section 30 SE to NW	18.5	0.04	0.33
Section 19 SW 1/4 of SW 1/4	3.47	0.01	0.18
TOTAL	67.33	0.1	0.9

#### County of Imperial

The solar facility site is designated by the County of Imperial General Plan as "Agriculture" and is zoned A-2 (General Agriculture), A-2-R (General Agricultural Rural Zone), and A-3 (Heavy Agriculture). The proposed solar facility site comprises approximately 1,130 acres of fallow agricultural land. The Proposed Action would require approval of a Conditional Use Permit by the County of Imperial that would allow for the construction and operation of the proposed solar facility on a project site consisting of nine legal parcels zoned A-2, A-2-R, and A-3. Pursuant to Title 9, Division 5, Chapter 9, "Solar Energy Plants" is a use that is permitted in the A-3 zone subject to approval of a Conditional Use Permit from the County of Imperial. ("Transmission lines, including supporting towers, poles, microwave towers, utility substations" are permitted uses within the A-3 Zone.) Pursuant to Title 9, Division 5, Chapter 8, "Solar energy electrical generator," "Electrical power generating plant," "Major facilities relating to the generation and transmission of electrical energy," and "Resource extraction and energy development," are uses that are permitted in the A-2 and A-2-R zone subject to approval of a Conditional Use Permit from the County of Imperial. In addition, the Proposed Action would require approval of a variance by the County of Imperial that would allow the proposed transmission towers to exceed the 120-foot height limit on the private land portion of the project. This would affect only the portion of the Proposed Action proposed for the solar energy facility, which is located on private lands in the unincorporated portion of the County of Imperial. The proposed transmission towers would be a maximum of 140 feet in height. No land use changes would be required in order to implement the Proposed Action.

### Department of Energy

Title XVII of the Energy Policy Act of 2005 (EPAct), P.L. 109-58 as amended by section 406 of the American Recovery and Reinvestment Act of 2009, P.L. 111-5 (the "Recovery Act"), established a Federal loan

guarantee program for eligible energy projects. Title XVII authorizes the Secretary of Energy to make loan guarantees for various types of projects, including those that "avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases; and employ new or significantly improved technologies as compared to commercial technologies in service in the United States at the time the guarantee is issued." Section 406 of the Recovery Act added section 1705, which is designed to address the current economic conditions of the nation, in part, through eligible renewable and transmission projects to commence construction no later than September 30, 2011. The primary purposes of the Recovery Act are job preservation and creation, infrastructure investment, energy efficiency and science, assistance to the unemployed, and state and local fiscal stabilization. The purpose and need for the Department of Energy (DOE) action would be to comply with its mandate by selecting eligible projects that meet the goals of EPAct and the Recovery Act.

Pursuant to provisions of section 1705, on October 7, 2009, DOE competitively solicited applications for, "Commercial Technology Renewable Energy Generation Projects Under the Financial Institution Partnership Program." In response to that solicitation the project proponent, CSOLAR Development LLC submitted an application to DOE on June 11, 2010, for a Federal loan guarantee for the Imperial Solar Energy Center (ISEC) South and West. DOE is carrying out a detailed financial, technical, and legal evaluation of the project submitted by the loan applicant, and is in the course of negotiating the terms and conditions of a possible Federal loan guarantee pursuant to its procedures set out at 10 CFR Part 609. DOE is a cooperating agency on this EA pursuant to a MOU between DOE and BLM signed in January 2010, and would use this EA to comply with NEPA and assist the decision making regarding whether or not to issue a loan guarantee. DOE would issue its own FONSI, if appropriate.

## ES.7 Native American and Government-to-Government Consultation

With the filing of the Imperial Valley Solar Energy Center West application for a ROW, the BLM, as the lead federal agency, invited tribes into consultation pursuant to the Executive Memorandum of April 29th, 1994, as well as other relevant laws and regulations, including Section 106 of the NHPA. To date, fifteen Native American tribes have been identified and invited to consult on this project. The BLM invited the tribes into government-to-government consultation by letter on June 24, 2010. The BLM has received responses from the Fort Yuma Quechan Tribe, the Manzanita Tribe, and the Cocopah Indian Tribe indicating their interest in the project and their desire to continue consultation. The BLM, El Centro Field Office Archaeologist also received a phone call and discussed the project with Ms. Carmen Lucas of the Kwaaymii Laguna Band of Mission Indians. She requested additional information regarding the project and will continue to be consulted. The BLM is continuing to provide updates on the status of the environmental review process and the Section 106 process, invite the tribes into government-to-government consultation, and request their help in identifying any issues or concerns. The cultural resource inventory reports were sent to all tribes for their review and comment on November 1, 2010. The letter included with the reports also invited Tribes to a meeting and archaeological sites visit to be held in El Centro on November 16, 2010. Representatives from the Cocopah Indian Tribe and San Pasqual Band of Diegueno Indians attended the meeting. The meeting presented information to the tribes regarding the proposed project and provided an opportunity for Tribes

to ask questions and express their concerns regarding the proposed project. There have also been two additional letters and a meeting since November 16, 2010. A letter dated December 14, 2010 informed tribes of the release of the Draft EIR/EA, the comment period, and where they could comment. The consultation process is still ongoing.

## ES.8 Public Participation

The County of Imperial and the BLM conducted the following scoping process to identify the environmental issues for the proposed project. Comments received during this scoping process were considered by both the County and BLM in preparation of this EIR/EA. This scoping process meets the intent and requirements of CEQA (CEQA Guideline §15082) and NEPA (40 CFR 1501.7).

### ES.8(A) Notice of Preparation

The County of Imperial issued a Notice of Preparation (NOP) for the preparation of an Environmental Impact Report/Environmental Assessment for the Proposed Action on June 11, 2010. The NOP was distributed to city, county, and state and federal agencies, other public agencies, and various interested private organizations and individuals in order to define the scope of the EIR/EA. The purpose of the NOP was to identify public agency and public concerns regarding the potential impacts of the Proposed Action, and the scope and content of environmental issues to be addressed in the EIR/EA. Comment letters in response to the NOP were received from the California Department of Transportation, the United States Marine Corps, Imperial County Air Pollution Control District, California Department of Conservation, Department of Toxic Substances Control, Imperial Irrigation District (IID), Colorado River Board of California, and Californias for Alternatives to Toxics. Circulation of the NOP ended on July 13, 2010. Written comments received during the public review period for the NOP are included in Appendix A of this Final EIR/EA.

Issues identified during the scoping process include:

- Caltrans requirements for Utility Encroachment, such as line supports for overhead lines crossing freeways.
- Concern regarding dust emissions and control during construction and operation of the project.
- Concerns raised regarding potential impacts associated with the conversion of agricultural lands.
- · Concern regarding possible use of herbicides for weed control at the solar generating facility.
- Concern regarding impacts to human health and/or the environment due to potential hazardous materials onsite (e.g., chemicals, asbestos, pesticides, and organic waste).
- Fiscal impacts to the County associated with the solar generating facility.
- Concerns raised regarding the Proposed Action's location within a military low-level training route and the potential impact including noise, vibrations, and interference from the overflight aircraft.
- Revisions to IID distribution circuits may be required to serve the Operations and Maintenance building proposed at the solar facility site.
- Concern that the IID facilities may potentially impact the Westside Main Canal.

- A new bridge may be required to cross the Westside Main Canal in order to access the site.
- Encroachment permit requirements for any construction or operation on IID property or within existing or proposed right of way easements.
- · Project water requirements of IID.
- New, relocated, or reconstructed IID facilities required for the project need to be evaluated.

## ES.8(B) Scoping Meeting and Environmental Evaluation Committee

A public scoping meeting was held for the Proposed Action in order to solicit input on the scope and content of the EIR/EA. This meeting involved both representatives of the County of Imperial as the CEQA Lead Agency, and the Bureau of Land Management as the NEPA Lead Agency. At this meeting comments from the public were taken in both written and oral form. The meeting was recorded by the County of Imperial. This meeting occurred on June 24, 2010. Written comments received at the public scoping meeting are included with the NOP comments in Appendix A of this Final EIR/EA.

## ES.8(C) Airport Land Use Commission Meeting

The Proposed Action was presented and discussed at the County's Airport Land Use Commission (ALUC) Meeting held on June 16, 2010. The Proposed Action requires the transmission towers to be constructed at 140 feet in height. However, this would exceed the County's 120-foot height limit for non-residential structures within the A-2, A-2-R, and A-3 zones. The ALUC determined that the Proposed Action would be consistent with the Airport Land Use Compatibility Plan (ALUCP) and no height restrictions are required for the proposed transmission line towers.

## ES.9 Comments and Responses

The Draft EIR for the Imperial Solar Energy Center West project was circulated for public review and comment for a period of 20 days, from November 22, 2010 to January 10, 2011. A total of twelve (12) agencies, organizations, and persons provided written comments on the Draft EIR during public review. A copy of each comment letter along with corresponding responses is included in a "side by side" format to facilitate review. The specific comments and the corresponding responses have each been given an alphanumeric reference. The Final EIR/EA includes revisions including clarifications and corrections. The Final EIR/EA includes revisions, including clarifications, corrections, and updated information based on these comments. These revisions to the original text are made in restatement (clean) format instead of in strikeout/underline format in order to enhance the quality of public and decision-maker review.

TABLE ES-1 Summary of Potential Environmental Effects, Mitigation Measures, and Significance

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.1 Visual Resources			_
PA No significant short-term or long-term visual resources impact has been identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE
4.2 Land Use			
PA No significant physical land use impact has been identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE
4.3 Transportation/Circulation			
PA No direct impacts to intersections, roadway segments, and freeway segments were identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.4 Air Quality			
PA Significant NO <sub>x</sub> impacts are expected due to construction grading operations. NO <sub>x</sub> emissions of 103.5 pounds per day would exceed ICAPCD's threshold of 55 pounds per day. This is considered a significant impact and would require mitigation using cleaner Tier 2+ equipment <sup>1</sup> to reduce NO <sub>x</sub> emissions to below a level of significance.	S	AQ1 All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower (hp) or more, will meet, at a minimum, the Tier 2 California Emissions Standards for Off-Road Compression-Ignition Engines as specified in California Code of Regulations, Title 13, section 2423(b)(1) unless such engine is not available for a particular item of equipment. If a Tier 2 engine is not available for any off-road engine larger than 50 hp, that engine will have tailpipe retrofit controls that reduce exhaust emissions of NO <sub>x</sub> and PM to no more than Tier 2 emission levels. Tier 1 engines will be allowed on a case-by-case basis only when the Project owner has documented that no Tier 2 equipment or emissions equivalent retrofit equipment is available for a particular equipment type that must be used to complete the Project's construction. This will be documented with signed written correspondence by the appropriate construction contractor along with documented correspondence with at least two construction equipment rental firms.  A list of the construction equipment and the associated EPA Tier shall be submitted to the County Planning and Development Department prior to the issuance of a grading permit to verify implementation of measure.	LTS

<sup>1</sup> For the purposes of mitigation, any construction equipment unable to comply with the applicable standards for a specific pollutant will be reanalyzed using the applicable Tier 2 equipment for engine sizes over 50 HP. These emission rates become mandatory for all equipment built starting 2001 or later (depending on engine size).

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			sites, regard requirements Dust Control below shall construction. verify implemeasures. ICAPCD State Control  • All disturbe which is effectivel limited to emissions suppressavegetativ  • All on si effectivel limited to emissions suppressave all unpayon 75 or more effectivel limited to emissions suppressave. The trans	Imperial County's APCD, all dless of size, must compicontained within Regulation Measures. These mitigation mide implemented prior to The County Department of Pumentation and compliance and Measures for Fugitive Deed areas, including Bulk Mainot being actively utilized y stabilized and visible emission on greater than 20% opains, tarps or other suitable mains, tarps or other suitable mains and off site unpaved reground cover. It is an and off site unpaved reground cover. It is an	ly with the n VIII-Fugitive easures listed and during blic Works will with these  Dust (PM10)  terial storage ed, shall be sions shall be acity for dust abilizers, dust aterial such as coads will be acity for dust abilizers, dust or more with a day will be sion shall be acity for dust abilizers, dust or more with a day will be sion shall be acity for dust abilizers, dust accompletely	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1		Alternative 2 - Alternative Transmission   Alternative 3 - Reduced Solar   Alternative 4 - No.		Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			spillage a cargo con cleaned removal of each extends a more onto the stability with apstabilizers and transonal road shademissions opacity stabilizers ICAPCD Stan Equipmento Minimize when no	of the container is maintained and loss of Bulk Material. In compartment of all Haul True and/or washed at deliver of Bulk Material.  Out or Carry-Out will be cleaned workday or immediately where a cumulative distance of 50 or a paved road within an Urban and of Bulk Material handling or at point of Bulk Material handling or at point of Bulk Material handling or at point plication of sufficient water or by sheltering or enclosing after line.  Struction of any new Unpair distruction	addition, the cks is to be ry site after ed at the end in mud or dirt linear feet or in area. In transfer shall ints of transfer er, chemical the operation eved Road is ulation of 500 definition of a rary unpaved and visible ter than 20% ing, chemical ering. In Combustion uipped diesel off-road and equipment off	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Limit, to the extent feasible, the hours of operation of heavy-duty equipment and/or the amount of equipment in use.   Replace fossll fueled equipment with electrically driven equivalents (provided they are not run via a portable generator set).   Construction equipment poerating onsite should be equipped with two to four degree engine timing retard or precombustion chamber engines.   Construction equipment used for the project should utilize PPA lier 2 or better engine technology.   Keep vehicles well maintained to prevent leaks and minimize emissions, and encourage employees to do the same.   CAPCD *Discretionary* Measures for Fugitive Dust (PM10) Control   Water exposed soil with adequate frequency for continued moist soil, including a minimum of three wettings per day during grading activities.   Replace ground cover in disturbed areas as quickly as possible.   Automatic sprinkler system installed on all soil piles.   Vehicle speed for all construction vehicles shall not exceed 15 mplo on any unpaved surface at the construction site.   Implement the trip reduction plan to achieve a 1.5 AVR for construction plan to achieve a 1.5 AVR for construction mentory exceed 15 mploment a shuttle service to and from retail services and food establishments during lunch hours.    Proposed Action = PA	Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
Transmission Line Corridor Line Corridor (IVW-1) = 2 Energy Facility Site = 3 Project Alternative = 4				heavy-du equipmer Replace driven ec portable Construct equipped retard or Construct utilize EPA Keep veh minimize the same ICAPCD "Disc Control Water ex continued wettings p Replace as possibl Automati Vehicle s exceed construct Implemer AVR for c Implemer	antin use.  fossil fueled equipment wit quivalents (provided they are generator set).  tion equipment operating onside with two to four degree exprecombustion chamber enginetion equipment used for the particles well maintained to prevenentssions, and encourage emprecombustion encourage emprecombustion encourage emprecombustion encourage emprecations, and encourage emprecationary. Measures for Fugitive exposed soil with adequate for moist soil, including a minimper day during grading activities ground cover in disturbed are expected for all construction vehicles must be a construction employees.  In the trip reduction plan to a construction employees.  In a shuttle service to and	amount of h electrically not run via a site should be engine timing nes. project should plogy. ent leaks and ployees to do the Dust (PM10) requency for num of three es. eas as quickly all soil piles. icles shall not urface at the achieve a 1.5 dd from retail	
Less Than Significant = LTS		Transmission Line Corridor (IVW-2A) = 1	Line Corridor (IVW-1)	= 2	Energy Facility Site = 3	Project Alternative	e) = 4

Er	nvironmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
			<ul> <li>Enhanced Mitigation Measures for Construction Equipment</li> <li>Curtail construction during periods of high ambient pollutant concentrations; this may include ceasing of construction activity during the peak hour of vehicular traffic on adjacent roadways.</li> <li>Implement activity management (e.g. rescheduling activities to reduce short-term impacts).</li> </ul>	
1 Same as PA.		S	Same as PA.	LTS
2 Same as PA.		S	Same as PA.	LTS
3 Same as PA.		S	Same as PA.	LTS
4 No significant in	npact would occur.	NE	No mitigation recommended.	NE
identified, the ICAPCD's CEQ Development F	air quality operational impact is Proposed Action, pursuant to the A Handbook, Rule 310 (Operational Fee) would apply to the proposed Maintenance Building.	LTS	AQ3 Prior to the issuance of a building permit, the project applicant shall comply with the ICAPCD Rule 310. All project proponents shall consult with ICAPCD to select and implement off-site mitigation measures, pay an operational development fee, or a combination of both.	LTS
1 Same as PA.		LTS	Same as PA.	LTS
2 Same as PA.		LTS	Same as PA.	LTS
3 Same as PA.		LTS	Same as PA.	LTS
	npact would occur.	NE	No mitigation recommended.	NE
4.5 Greenhouse Ga				
emissions, the	pact is identified for greenhouse gas Proposed Action is required to be In the GHG emissions reduction 32.	NE	<ul> <li>GHG1  <u>Diesel Equipment (Compression Ignition) Offset Strategies</u> (40% to 60% Reduction):  1) Use electricity from power poles rather than temporary diesel power generators.</li> <li>2) Construction equipment operating onsite should be equipped with two to four degree engine timing</li> </ul>	BE

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		retard or precombustion chamber engines.  3) Construction equipment used for the project should utilize EPA Tier 2 or better engine technology (Requirement under Mitigation Measure AQ1 as described in Section 4.4 of this EIR/EA.	
		<ul> <li>GHG2 Vehicular Trip (Spark Ignition) Offset Strategies (30% to 70% Reduction):</li> <li>4) Encourage commute alternatives by informing construction employees and customers about transportation options for reaching your location (i.e. post transit schedules/routes).</li> <li>5) Help construction employees rideshare by posting commuter ride sign-up sheets, employee home zip code map, etc.</li> <li>6) When possible, arrange for a single construction vendor who makes deliveries for several items.</li> <li>7) Plan construction delivery routes to eliminate unnecessary trips.</li> <li>8) Keep construction vehicles well maintained to prevent leaks and minimize emissions, and encourage employees to do the same.</li> </ul>	
1 Same as PA.	NE	Same as PA.	BE
2 Same as PA.	NE	Same as PA.	BE
3 Same as PA.	NE	Same as PA.	BE
4 No significant impact would occur.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.6 Geology/Soils and Mineral Resources			
PA The Proposed Action site contains expansive soils and corrosive soils.	S	GS1 Prior to approval of final engineering and grading plans for the Imperial Solar Energy Center West project site, the County shall verify that all recommendations contained in the Geotechnical Investigation Report, Imperial Solar Energy Center West, prepared by Landmark Consultants, Inc. (May 2010) has been incorporated into all final engineering and grading plans. This report identifies specific measures for mitigating geotechnical conditions on the project site, and addresses site preparation, foundations and settlements, slabs-on-grade, concrete mixes and corrosivity, seismic design, and pavement design. The County's soil engineer and engineering geologist shall review grading plans prior to finalization, to verify plan compliance with the recommendations of the report. All development on the project site shall be in accordance with Title 24, California Code of Regulations.	LTS
1 Same as PA.	S	Same as PA.	LTS
2 Same as PA.	S	Same as PA.	LTS
3 Same as PA.	S	Same as PA.	LTS
4 No significant impact would occur.	NE	No mitigation recommended.	NE
4.7 Cultural Resources			
PA Implementation of the Proposed Action would result in a significant impact to cultural resources during the construction and operational repair periods of the project.	S	CR1 For those sites considered eligible for listing on the NRHP that would be directly impacted due to the construction of access roads, towers, pull sites, or solar fields, data recovery and construction monitoring programs are required. The data recovery program for such sites shall	LTS

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			scientifically construction shall be d Resources managemen Interior Standand the Sector Archaeo	isions for adequately reconsequential information excavation being undertaken eposited with the Califorr Regional Information C tractices consistent with the lards for the Treatment of Historetary of Interior Standards and Historic Preservatuding construction monitoring:	prior to any . Such studies nia Historical enter. Best e Secretary of oric Properties nd Guidelines	
			resources thr technically p cause a no increase the impact, and of production design featu the project	ervation in Place: Avoidance ough project redesign in a mossible, operationally possible significant environmental	nanner that is le, does not limpact or environmental re than 1 MW ented this as a dission lines of	
			b) Minimizing impacts by limiting the degree of impacts or reducing the impact through best management practices identified in a data recovery, excavation and/or construction monitoring plan. The content of this plan must be consistent with the Secretary of Interior's Standards for the Treatment of Historic Properties and Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation and include a description of areas to be monitored during			
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			unanticipated	a discovery plan that discovery plan that discovery plan that construction workers.		
			to their provided to their provided to their provided to the monitoring perimeters with the cultural right of the monitoring archaeologisth old a current listed as the Investigator apermit, for me for performation grading within a manner runoff diversity.	ditional sites, which may be instimity to construction areas use these sites are located nearly project construction, and temporary fencing arould be required to ensure ain within the proposed imparts and be conducted by project shall be conducted by shall be conducted by the c	(see Section or areas being rchaeological around their that project act area and ect personnel. by qualified monitor shall or the Principal ons under the conditions, and In addition, be performed w and water	
				CEQA Guidelines § 15064.5(f),		
			resources ar	wn historic or unique au re encountered during co epairs, archaeological monit temporarily divert construction	nstruction or ors would be	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects  Environmental Effects  Before  Mitigation		Mitigation Measures	Level of Significance After Mitigation	
			100 feet of the area of discovery until the significance and the appropriate mitigation measures are determined by the BLM and a Registered Professional Archaeologist familiar with the resources of the region. The Applicant shall notify the County within 24 hours. The Applicant shall provide contingency funding sufficient to allow for implementation of avoidance measures or appropriate mitigation.  CR4  If human remains are discovered, work would be halted in that area, and the procedures set forth in the Native American Graves Protection and Repatriation Act (NAGPRA), the CEQA Guidelines Sec. 15064.5 (d) and (e), California PRC Sec. 5097.98 and state HSC Sec. 7050.5 shall be followed, as applicable.	
1 5	Same as PA.	S	Same as PA.	LTS
2 5	Same as PA.	S	Same as PA.	LTS
3 5	Same as PA.	S	Same as PA.	LTS
4 1	No significant impact would occur.	NE	No mitigation recommended.	NE
4.8	Noise			
PA N	No significant impact would occur.	NE	No mitigation recommended.	NE
1 5	Same as PA.	NE	Same As PA.	NE
2 5	Same as PA.	NE	Same As PA.	NE
3 5	Same as PA.	NE	Same As PA.	NE
4 1	No significant impact would occur.	NE	No mitigation recommended.	NE
4.9 A	Agricultural Resources			
PA I	mplementation of the Proposed Action will result in	S	AR1	LTS
t	the conversion of existing farmlands on the project		Prior to the issuance of a grading permit or building	
S	site to other uses.		permit (whichever permit comes first) for the Proposed	

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
		Mitigation	be accomplish by the Permit by the Permit The "Imperial in the permalands (farmla mitigation me Option 1: The Colon all out Colon and Grand Gran	I Solar Energy Center West" pro anent loss of 1,048.4 acres of and of local importance) and easures shall apply: e Permittee shall procure conservation Easements on a 2 1 1,048.4 acres, of similar qua utside of the path of develor conservation Easement shall me epartment of Conservation's ading or building permits. e Permittee shall pay an "Agric itigation Fee" in the amount of it market value per acre for cres based on five comparable ed for agricultural purposes fective date of the permogram costs on a cost recover-	oject will result of agricultural the following  Agricultural to 1 basis for ality farmland, opment. The eet the State is regulations suance of any cultural In-Lieu of 20% of the or the 1,048.4 e sales of land is as of the nit, including	Mitigation
			Mi ac De be ste	ed in a trust Planning and nent and will ne acquisition, enhancement ial County.		
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				The Permittee shall submit to the Imperial a reclamation plan property to its current agriculture prior to the issuance of any but the reclamation plan shall reclamation cost estimate prolicensed general contract engineer. The Applicant structure in the amount of the reclamation cost estimate land to its current agricultural cost to the issuance of any building	to return the ural condition ilding permits. I include a epared by a or or civil shall provide ount equal to to return the condition prior	
1 Same as PA.		S	Same as PA.	<u>, , , , , , , , , , , , , , , , , , , </u>		LTS
2 Same as PA.		S	Same as PA.			LTS
3 Same as PA.		S	permit (whice 3-Reduced 5 impact to a cone of the formal in the permater land (farmla mitigation means).	issuance of a grading permithever permit comes first) for the Solar Energy Facility Site, the gricultural lands shall be accollowing as determined by the Fill Solar Energy Center West" proanent loss of 1,038.13 acres of and of local importance) and easures shall apply:  The Permittee shall procure Conservation Easements on a for all 1,038.13 acres, of s farmland, outside of the development. The Conservat shall meet the State De Conservation's regulations as	me Alternative mitigation of omplished via Permittee: oject will result of agricultural the following e Agricultural a 2 to 1 basis imilar quality e path of ion Easement partment of	LTS
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Option 2: Option 3:	recovery/time and material Agricultural In-Lieu Mitigation placed in a trust account ad the Planning and Developm Department and will be us purposes as the acquisition,	Agricultural In- count of 20% of acre for the comparable cural purposes of the permit, on a cost basis. The Fee will be ministered by nent Services sed for such stewardship, cement of al County. The County of to return the ural condition ilding permits. I include a epared by a for or civil shall provide ount equal to to return the condition prior	
4 No new development is p Action/No Project Alterna	•	NE		n recommended.	F	NE
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ntal Effects	Level of Significance Before Mitigation			Level of Significance After Mitigation	
4.10Health, Safety and Hazard	dous Materials/Fuels Manage	ement				_
PA The presence of trash	and debris onsite and the s on the solar facility projec	s S	Proceed (NTF (solar energy access road) with current regulations. verified by the Services Department.  HM2 Prior to the after for weed madeveloped and common and common activities activi	essuance of a grading permit P), all trash and debris within the facility site, transmission line shall be disposed of off-site, int, local, state, and federal Compliance with this mean the BLM and Planning and partment before issuance of a New Polication of herbicides on the enagement, a weed control and approved by the BLM are the one by the County Commissioner. The weed control during at the project; and management of weed will aid in site revegetation; term strategy for weed ment during the operation of the	ne project site corridor, and accordance eral disposal sure shall be Development NTP or grading  e solar facility plan shall be and reviewed of Imperial atrol plan shall management construction eds in areas action where and, control and	LTS
1 Same as PA.		S	Same as PA.			LTS
2 Same as PA.		S	Same as PA.			LTS
3 Same as PA.		S	Same as PA.			LTS
4 No significant impact wo	uld occur.	NE	No mitigation	recommended.		NE
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unavo	oidable = SU	No Effect = NE	Beneficial Effect =	BE .

Environme	ntal Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
4.11Hydrology and Water Qu	ality					
PA Contamination associ source pollution (e.g., heavy metals) could entas a result of construction	ated with urban non-point grease, oils, sediment, and er the on-site retention basins n or post-construction-related potentially significant water	; ;	issuance of the submit and reconstruction in the source of the county of control and the operation pheometric integrated integrated end of the source of the project. The maintenance of the source of the maintenance of the source of the sour	d pest management; rigation and landscape design owner educational materia ontrol management.  e control BMPs are described of the EIR/EA.  ontrol BMPs will comprise of destrash and pollutants such eals, bacteria, oil and grease, a	eveloper shall the Colorado approved by aclude source astruction and ource control and als regarding a d in detail in tention basins as sediment, and organics.  The optimum and out the life of ture owner of crational and approved by a clude of the color of the colo	LTS
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alterna Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unave	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
		<ul> <li>Monitorin properly of Outlet strictly and debris.</li> <li>Vegetation From The facility work completely done and rain and safety refor public according and safety refor public according to the complete of the comp</li></ul>	ucture cleaning. on management. of weeds, tree pruning, leave stabilization of eroding banked equency sill be inspected and inspection ocumented: aring the rainy season and or season at a minimum, ery large storm (after every storms with more than the content of the storms with more than the storms of the storms of the storms with the storms of the storms	ves, litter, and ks.  on visits will be note between orm monitored 0.50 inch of performance re is important ties.  tivities will be gram: oved through	
Proposed Action = PA Alternative 1 - Alternative Transmission Line Corridor	Alternative 2 – Alterna Line Corridor (IVW-1) =	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
(IVW-2A) = 1 Less Than Significant = LTS Significant = S	Significant and Unavoidable = SU  No Effect = NE  Beneficial Effect =			DE	

Preventative Maintenance Preventative maintenance will be done on a regular basis. Preventative maintenance activities to be instituted at the basin are:  • Trash and Debis: During each inspection and maintenance visit to the site, debris and trash removal will be conducted to reduce the potential for inlet and outlet structures and other components from becoming clogged and inoperable during storm events.  • Sediment management: Alluvial deposits at the inlet structures may create zones of ponded water. Upon these occurres these deposits will be graded within the basin in an effort to maintain the functionality of the BMP. Sediment grading will be accomplished by BMP. Sediment grading will be accomplished by BMP. Sediment grading will be removed when sediment accumulation is greater than 18-inches, or 10 percent of the basin volume, whichever is less. Vegetation removed with any surface sediment excavation activities will be replaced through reseeding as required under Mitigation Measure 82.  • Mechanical Components: Regularly scheduled maintenance will be performed on valves, fence gates, locks, and access hatches in accordance with the manufacturers' recommendations. Mechanical components will be operated during each maintenance inspection to assure continued performance.   Proposed Action = PA  Alternative 1 - Alternative fransmission in Comidor (WW-2) = 2  Alternative 3 - Reduced Solar Energy Facility Site = 3  Alternative 4 - No Action/No Project Alternative = 4	Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
Transmission Line Corridor (IVW-1) = 2 Energy Facility Site = 3 Project Alternative = 4 (IVW-2A) = 1				Preventative basis. Previnstituted at the instituted at the institute accomple. Sediment removed than 18-in whicheves surface replaced Mitigation. Mechanic gates, lowith the institute accomple.	maintenance will be done ventative maintenance actions are:  d Debris: During each instance visit to the site, debrished be conducted to reduce and outlet structures and other coming clogged and inoperents.  It management: Alluvial deposits with the basin in an effort to instance be and the courrences these deposits with the basin in an effort to instance by manually raking the courrences.  It management: Alluvial deposits with the basin in an effort to instance be a single properties.  It management: Alluvial deposits with the basin in an effort to instance be a sediment grain and the course of the basin in an effort to instance will be performed on the properties. It is less. Vegetation removes the sediment excavation active through reseeding as reconsistent excavation active through reseeding the properties are the properties.	spection and ris and trash the potential recomponents erable during sits at the inlet water. Upon II be graded maintain the rading will be deposits. ents will be on is greater pasin volume, wed with any ities will be quired under by scheduled valves, fence accordance mmendations. erated during	
Less Than Significant = LTS   Significant = S   Significant and Unavoidable = SU   No Effect = NE   Beneficial Effect = BE		Transmission Line Corridor	Line Corridor (IVW-1)	= 2	Energy Facility Site = 3	Project Alternative	e = 4

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			effective eliminate  Corrective Maccorrective manon-routine be intended ope corrective mand trash store or control and prope.  Structural compone within 10 will concocurred.  Embanking embanking (e.g., with the concentrated concentrated concentrated concentrate the concentrate in sodding, manufactured.	aintenance is required on an epasis to correct problems and peration and safe function aintenance activities include: of Debris and Sediment: Sed in, which threaten the ability convey water, will be removed berly disposed of.  I Repairs: Repairs to a period of a basin will be made poworking days). Designers and fuct repairs where structural liment and Slope Repairs: Daments and slopes will be repair 10 working days). Repair: Where a reseeding effective, or where other reconsive conditions (i.e., pederated flow, etc.), corrective prevent loss of soil and any of the performance of a basin, of corrective actions that can be considered flow through the and any or reduced flow through the any or re	emergency or to restore the of a basin. iment, debris, of a basin to dimmediately ny structural romptly (e.g., d contractors damage has mage to the paired quickly program has factors have estrian traffic, steps will be y subsequent There are a an be taken. nkets, riprap, rea.	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			erosion policitics erosion policitics erosion policitics erosioned	on of Trees and Woody Vegeta on will be removed from emba on of Animal Burrows: Animal be disteps taken to remove the groblems continue to occuring). If the problem persists, we swill be consulted regarding realiting is necessary as the rabies in some areas may no being destroyed rather than related and the animal address and its associated components. In address and its associated components and its associated components. In an address and its associated components. In a components will be inspected ance is needed.  Frequency endicators, described	ident. e.g., within 10 in the security ation: Woody inkments. burrows will be the animals if fur (filling and vector control temoval steps. ecessitate the ocated. Idition to the ance, general is the overall if corrective component, ind to see if	
			implemented require a rig landscaping and regular	e schedule of maintenance a at the basin. These basin gorous maintenance schedul is established. The inspection preventative maintenance ive maintenance is necessary.	s should not le, once the on frequency will indicate	
Proposed Action = PA	Alternative 1 – Alternative	Alternative 2 – Alterna		Alternative 3 - Reduced Solar Fnerry Facility Site = 3	Alternative 4 – No Project Alternative	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		The detention basins must be inspected at least once during the rainy season and at least once between each rainy season. These basins must be maintained so that they continue to function as designed. All inspections and maintenance activities will be documented for submittal to the County of Imperial and the Regional Water Quality Control Board if requested.	
1 Same as PA.	S	Same as PA.	LTS
2 Same as PA.	S	Same as PA.	LTS
3 Same as PA.	S	Same as PA.	LTS
4 No significant impact would occur.	NE	No mitigation recommended.	NE
4.12 Biological Resources			
PA Implementation of the Proposed Action would impact vegetation communities, sensitive species, and jurisdictional waters.	S	B1 Vegetation Communities Mitigation for the permanent and temporary impacts to creosote bush-white burr sage scrub, desert wash vegetation, and mesquite thicket requires the project applicant to place like habitat in the ratios established in Table 4.12-13 under conservation easement or similar legal instrument providing for the long-term protection for each preserved vegetation community. The preserved creosote bush-white burr sage scrub habitat under this requirement B1 will satisfy the habitat preservation component for FTHL, consistent with the BLM FTHL RMS. Compensatory habitat for desert wash vegetation incorporates requisite mitigation for CDFG and, to the extent applicable, ACE, jurisdictional	LTS

<sup>&</sup>lt;sup>2</sup> A qualified Designated Biologist must have (1) a bachelor's degree with an emphasis in ecology, natural resource management, or related science; (2) three years of experience in field biology or current certification of a nationally recognized biological society, such as The Ecological Society of America or the Wildlife Society (3) previous experience with applying terms and

conditions of a biological opinion; and, (4) the appropriate permit and/or training if conducting focused or protocol surveys for listed or proposed species.

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			3.11 and 4.1 project applications the impacted are future disturb will work tog that provide species asso such as selector areas that urban develor.  B2 Noxious, To minimize that weed maimplemented a discussion of the project of the project.  General medinclude:  Limiting of minimal in and egree.	Invasive and Non-Native Ween eintroduction and spread of an agement plan will be dead of the weed management plate of specific weeds identified of the control as we that will be undertaken to and spread of new weed specific weeds pread of the weed specific weeds and spread of the weed specific weeds and spread of the weed specific weeds and spread of the weed specific weeks weed specific weeks were weeks were well as	cies and the te lands that the lands that the lands that the lands that the cit to potential ect applicant thabitat areas benefit to the communities, ment corridors butside of the lands weed species weloped and an will include an site that will the lands a variety prevent the cies as a result and of weeds truction to the limiting ingress cition stations,	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	- BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			weed int  Use of ce bales an  Reestabl practica long-tern  Monitorir measure for need  Invasive pla prevented, Integrated Vegetation Ti	onto the site to minimize the roduction ertified weed free mulch, stray d seed mixes ishing native vegetation as ble on disturbed sites as the restrategy to avoid weed invasing and rapid implementations to ensure early detection and weed invasions.  Into species on BLM lands controlled, and treated Pest Management approars reatments on Bureau of Land Western States Programmatic 19007).	w wattles, hay s quickly as most effective sions on of control id eradication s would be through an ch per the Management	
			physical and include man hand and polyherbicide appropriate to which can interspersed herbicide, correquired perrostate of Calif	ontractors will be required to mits from state and local autho fornia and federally certified o	entrol methods or the use of or cut plants. ed, effective is of invasive application of be avoided, in weeds are ore applying to obtain any porities. Only a contractor will	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmenta	al Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			herbicides applicable Is including the Herbicides of Western Statement (Ponly herbicides California for adjacent to only occur of	d to perform herbicide applied in accordance, regulations, and permine Final Vegetation Treatm Bureau of Land Managementes Programmatic Environments) released to the public on a des and adjuvants approved by use on public lands will be use the project site. Herbicide apon BLM lands with an approved P).	rdance with t stipulations, ments Using nt Lands in 17 ental Impact June 29, 2007. by the BLM in used within or uplication can	
			Proposal (PUP).  The Record of Decision (ROD) for the Final Vegetation Treatments Using Herbicides on Bureau of Land Management Lands in 17 Western States Programmatic Environmental Impact Statement includes standard operating procedures (SOPs) for applying herbicides (summarized in Appendix B, Table B-2 pages B-9 to B-14 of the ROD) and mitigation measures (summarized in Table 2, pages 2-4 to 2-6 of the ROD) that were adopted to ensure that all practicable means to avoid or minimize environmental harm is implemented in these vegetation treatment projects. The Human Health Risk Assessment (PEIS, Appendix B) and Ecological Risk Assessment (PEIS, Appendix C) include an analysis of impacts to resources and human health. This EIR/EA tiers to the both the human health and ecological risk assessments, the resource analyses related to the SOPs, and resource analyses related to the mitigation measures in the PEIS.			
·   T	Alternative 1 - Alternative ransmission Line Corridor IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
	ignificant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
		Mitigation	Construction In accordance Strategy (ICC) designed to potential direction proposed profimplemented on the transmediate burners of the shall be and BLN contact be designed construction reporting as annual successive the BLN manage.	ce with the FTHL Rangewide (2003), the measures propose avoid, minimize, and/or concept and indirect effects constructed and within the consequence of the solar energy facility:  ground disturbing activities, designated and approved by as a Designated Biologist representative). A Designated effect the period during within and post-construction may by an approved biologist is real reporting on habitat restove Designated Biologist will be designated Biologist will be a Authorized Officer (i.e., El Centro).	an individual by the USFWS st <sup>2</sup> (i.e. field d Biologist will hich on-going onitoring and equired, such ration. Each approved by, BLM field e authority to tion measures	Mitigation
			for the Designat	THL and will be the primary ago implementation of these me ed Biologist will have the a bility to halt activities that are	easures. The authority and	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	= BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			respons summal to biolo Not at gro Immode act cor spe Cor of core after cor rep cor The body (including tempor with stactivities lacking poor. If and suminimize equipments)	ibilities for the Designated rized below. To avoid and min gical resources, the Designated ify BLM's Authorizing Officer are least 14 calendar days being disturbing activities. The diately notify BLM's Authorized USFWS in writing if the Project in compliance with any assures, including but not linual or anticipated failure the asservation measures within the cified. The diated and submit a monthly ort to BLM's Authorized astruction is complete. Sundaries of all areas to be assured and flagging prior to so spoils will be stockpiled in dinative vegetation or where has of the extent possible, disturbations and contents are soils due to stockput and minimum and the stockpiled in dinative vegetation or where has of the extent possible, disturbations are soils due to stockput and supplications.	imize impacts in Biologist will: and the USFWS fore initiating and Officer and it applicant is conservation nited to any o implement time periods at a minimum grading are y compliance Officer until the disturbed is, and sites for the delineated construction sturbed areas bitat quality is nce of shrubs illing will be enicles, and agged areas.	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Construct 3. Approve Designat surveys a disturban closure, monitor(s field more experien identify FFTHL trace resume, informati the BLM, and min Biological with the selection of the selection o	cominimize mortality to FTF ction Measure #7 below).  In de biological monitor(s) with the biologist in conducting present in monitoring of mobilization, construction and restoration activities. The present education in the proposed biological ce to understand FTHL biological ce to understand be able to identical the proposed biological cast. The Designated Biologist was at least three references, on of the proposed biological cast. The Designated Biological cast in the proposed biological cast. The Designated Biological cast least three references, on of the proposed biological cast. The Designated Biological cast least three references, on of the proposed biological cast. The Designate impacts to biological cast. The Designate in the proposed biological cast. The Designate in the Designate	ill assist the e-construction ation, ground, operation, he biological aducting FTHL ation and field by, be able to tify and follow will submit the and contact all monitors to a wal. To avoid esources, the pated Biologist e.g., grubbing, activities that id or minimize but are not with all impact in measures, and stakes activities are ess.	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	= BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			If be and 3:1 ram pre • Dur suff hou 29° 4. FTHLs will construct below. F more I activities habitat. will be d and will transects construct minutes that ha permits removal • A H Pro RM qua act des	er excavations) for wildlife and ackfilling is not feasible, all tree of other excavations will be considered at the ends to provide whos, or completely and secure event wildlife access. Ting construction, examine are accessed disturbance periodical arry, when surface temperated are being conservation. The removal will be conducted biological monitors when so are being conducted in To the extent feasible, method esigned to achieve a maximal include, but not be limited as, tracking, and raking around estion, the minimum survey efficient, the minimum survey efficient, the minimum survey efficient and authorization from the surveys will also include: storned Lizard Observation Data are perfect Reporting Form, per Apperately reports describing frivity, per the reporting scribed in Conservation Measure be submitted to the BLM.	enches, bores, ontoured at a vildlife escape ly covered to leas of active ly, at least cures exceed ce of FTHL. vay during all n measure #6 led by two or construction suitable FTHL is to find FTHLs capture rate to using strip shrubs. During lort will be 30 leac). Persons all necessary CDFG. FTHL a Sheet and a lendix 8 of the construction, THL removal requirements	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU		No Effect = NE	Beneficial Effect = BE	

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures	Level of Significance After Mitigation
			relocation (e.g., away the Yuhan shade of surface Celsius (F), the End authorized Initially, of cooler, of from which held at the will not occur as daylight biological and discurvival of the end of	al monitor will be allowed sortertion when relocating lizards of FTHLs found in the Project are taximum extent practicable, gwill be conducted during the adefined as March 1 through Sund temperatures are between C (100° F). If grading cannot be time, any FTHLs found will be act areas (see above) whig habitat exists, (e.g., sandy signals).	in low-impact hels) areas of placed in the ed habitat. If less than 24° ed 38°C (100° cal monitor, if later release. a cloth bag, dry container Lizards will be and 90° F and and exercise Rease will be and grown and for the early area of the early area.
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Service.  aforeme any veg involves (if it was stock, ar planting, monitorir (or less if Compor  The Rev The soil orig surf rain tha surv the loca rain mul  Operations at In order to re O&M, the	RP) approved by the BLM, The HRP must be approved in antioned agencies prior to the getation disturbing activities. recontouring the land, replacing collected), planting seed and maintaining (i.e., weeding, supplemental watering, and the restored area for a perfect the restoration meets all such ents of the HRP will include:  In incorporation of Deservegetation/Restoration Guidant areas where the measures generally included compaction, returning the signal contour, pitting or inface to allow small areas where the water can be captured, plant thave acquired the necessary vive without watering, planting appropriate without watering, planting appropriate spring with herbivory cages, ally collected seed immediated by season, and covering the light of the potential impact to following will be implementable of the potential impact to following will be implementations.	writing by the e initiation of Restoration ing the topsoil d/or container replacement etc.), and iod of 5 years access criteria).  It Bioregion ince measures de alleviating surface to its inprinting the ere seeds and atting seedlings by root mass to go seedlings in broadcasting ely prior to the ere seeds with	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE	

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			remains i provide ti Interagen annual FI minimum:  • A ge site • A co mon implemea • An com avoi • A co Flat-I Man • A su mort Wildl • Reco mea effect proje 9. The Design evaluate reduce maintena active s	eneral description of the status oppy of the table in the Projectioning report with notes showing the mentation status of each issure.  assessment of the effective of the effec	Biologist will and the FTHL e (ICC) an include, at a of the project ect biological and the current conservation less of each demeasure in pacts form from the Rangewide 2003) ling any FTHL the Project's and to more offset future monitor(s) will measures to access and ing the FTHL	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav		No Effect = NE	Beneficial Effect =	
Less man significant = Lis	signinicant = s	significant and unav	บเนลมเษ = งบ	INO LITECT = INE	benenciai chect =	DL

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			trans road Desig to 10 corri vehic trans facili acce vehic desig • Pede acce no g as v woul pede inclu and • O&N any grou acce FTHL • If an the F distu	eed limit of 15 miles per hour smission line access roads or a within the solar energy gnated Biologist may reduce to mph in areas identified as a dors as needed to reduced roles required for O&M smission line and within the sty must remain on the ess/maintenance roads. The cle and equipment use gnated work areas shall be protestrian access outside of the ess roads is permitted year-rour ground-disturbing activities take weed abatement or other and require soil disturbant estrian footprints). This pedendes occasional inspections of other on-site facilities. If activities including weed and other O&M activity that round disturbance outside of the ess roads will be conducted of active season whenever feasily O&M activities must be conducted of active season whenever feasily O&M activities must be conducted of active season that may restrain panels, or vehicles require defining the panels, or vehicles required access roads and access roads acc	maintenance facility. The his speed limit active wildlife mortality. All along the solar energy designated Cross-country outside of phibited. The designated and as long as the place (such activities that access f solar panels batement, or may result in the designated outside of the ble. Coucted during esult in ground ment, washing uiring access	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				ogical monitor will be provities to reduce FTHL impacts.	esent during	
			annual FTHL judgment of road utilization	ion of these measures would activity levels, the best the Designated Biologist, and on. FTHL found on access/ relocated out of harm's way monitor.	professional d site-specific maintenance	
			Rangewide N	on nce with the Flat-tailed H Management Strategy, mitigat Impacts to FTHL habitat, as sh	tion would be	
			sage scrub proposed tra Rangewide	wn to occur in the creosote by and desert wash vegetations nsmission corridors. In accordangement Strategy, comis habitat within the MA will be	on along the ance with the pensation for	
			A number of potential indicated as well as resistance of as standard of order to recommend to the project and as standard of the project and as standard of the project and th	eral Project Mitigation Recomm of general measures, designer rect impact to resources in the tore and/or improve the qualitarea, will be implemented after operations and maintenance duce the potential impactaring operations and maintenance	ed to reduce e project area y of habitat in r construction protocols. In to biological	
Proposed Action = PA	Alternative 1 - Alternative	Alternative 2 – Alterna		be implemented:  Alternative 3 - Reduced Solar	Alternative 4 - No	Action/No
Proposed Action = PA	Transmission Line Corridor (IVW-2A) = 1	Line Corridor (IVW-1)		Energy Facility Site = 3	Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			within the miles per activities operation months annual time.  — Worker E 2. A Rave implement storage and by the separation proves construct any deal conduct facility approprime wildlife or along the coordinate the Decidead of transmiss Fatality/I	fe Mortality Reporting Prog d and implemented to identife d or injured animals observed ing O&M activities within the and along the transmission ate reporting format for dea observed within the solar energine transmission line will be of ation with the USFWS and the dision Record. In addition, rep or injured avian species fountion line will follow the existin	ot exceed 15 ess for O&M necessary for ng the winter access and HL mortality.  The epared and measures for ash produced aployees. This gers that may is plan will be FG prior to the effective of	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE	

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			approva The ABP avian a ground-o construct line struct the stay operation equipme • mea active operation equipme • designer utilitian avia ada  These measu for overhead recommender visibility of the incorporate, Mortality Regional discussed about  5. Prior to awarener establish	ed or other methods that e e lines to avian species. The a as appropriate, components of porting Program and Raven ove.  Project initiation, a worker e ess program (WEAP) will be d	e to Proceed. d impacts to l result from ed with the y, transmission building, and as well as collisions with ollowing: sturbance of truction and  transmission ortality cortality corting, and nts  agn guidelines incorporating enhance the ABPP will also of the Wildlife Control Plan  environmental eveloped be and any	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Ac Project Alternative =	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE	

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			summarize construct personner following personner following proves iden measure protes potes funct work reported and mort BLM and occurs A brief Annuresource ages the above generating specific measuresource generating specific measuresource generating specific measurce ages the above generating specific measurce ages the above generating specific measurce ages and more specific measurce ages the above generating specific measurce ages and more specific measurce ages and more specific measures ages and more specific measures ages and more specific measures and more specific measures are specific	el. The education program we aspects: ide instruction on sensitification; sures to avoid contact, distruction procedures in the careform injured wildlife species. To injured wildlife species. To you and status of the FTHL, ection measures designed ential impact to the species, tion of flagging designating areas, orting procedures to be used ountered in the field, redures and techniques, for control of the project site ality of FTHL on roads.  shall be notified per approve channels of authority if more	rovided to all maintenance ill include the tive species urbance, and ase of dead to reduce g authorized d if a FTHL is and driving ommuting to, e, to reduce ed guidelines ortality should the relevant ementation of any resource-	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Burrowing of agricultural of facility. The mitigate post construction of a footprint of January owls. If constructions of the construction of the facility of	wing Owl wls have been observed in fields within the proposed following measures will avoid tential impact to burrowing activities as discussed above in rading of the agricultural of will take place between Sept 31 to avoid impact to breedi ruction is to begin during of the measures below will be february 1 to discourage the of g owls within the area of tion continues, any area who should be subject to frequent before the breeding season be to be relocated before nesting of conducted to determine the of this species within the consideration clearance surveys for conducted to determine the of this species within the consideration may differ from the date or of burrowing owl burrows a tion may differ from the date or of the project o	solar energy, minimize, or yowl during in this section: fields project tember 1 and ing burrowing the breeding implemented nesting of the impact. As here owls are not surveys for begins, so that occurs. Construction, a profession area, and the time of attacollected the proposed be clearly ecconstruction.	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation			Mitigation Measures		Level of Significance After Mitigation
			3)	Protocol If active footprint impleme used to Passive r breeding excavati into occ inside to animals fleast one to allow before of burrows prevent burrows at a mitti the impart of the construct land to outside or relocate by the ause.  As the finalized, monitorir	s provided in the Burrowing and Mitigation Guidelines.  burrows are present within the following mitigation mented. Passive relocation methelelocation should only be done season. This includes and all burrows and installing of upied burrows. This will allow a leave the burrow, but will from re-entering the burrow. We week is required after the relative the birds to leave the improvement of the area can should then be excavated a their reuse. The destruction of gation ratio of 1:1 at least 50 acted area and must be constructed as a proposed transmission of the proposed transmission and burrows onto BLM lands will agencies to prevent conflicts.  Construction schedule and an approved biologist shall ge plan that will detail the detail the detail the detail the minimize and mitigate in	n the project asures will be nods are to be impact zone. The in the non-covering or one-way doors of any animals exclude any A period of at location effort pacted area in begin. The nof filled in to of the active of new burrows of meters from ructed as part efforts. The place on BLM olar field, and corridor; any be approved in future land a details are all prepare a methodology	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Corridor (IVW-1)			Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable	e = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ntal Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
			and cor	Passive relocation, destruction struction of artificial burrows ed upon approval by CDFG.		
			requires a mi	pation guidelines for burrowin nimum of 6.5 acres of foragin aired resident bird to be a o offset the loss of foraging	g habitat per cquired and	
			Assuming the project impacts to two active burrows, a minimum of 13 acres would be permanently protected to offset this loss. This mitigation would be implemented in concert with the purchase/acquisition of mitigation for FTHL as detailed in Mitigation Measure B1/B3, provided at least 13 acres of the FTHL mitigation contains suitable habitat for burrowing owl and is approved by CDFG. If FTHL mitigation is in the form of an in lieu fee to be used within the Yuha MA, which also provides suitable habitat for BUOW, it is assumed that the BLM or ICC's use of the funds within the MA will also improve or increase habitat			
			requirement.	nd will therefore fulfill the BUC	W mitigation	
			B6 Nesting Raptors Raptors and active raptor nests are protected under California Fish and Game Code 3503.5, 3503, 3513. In order to prevent direct and indirect noise impact to nesting raptors such as red-tailed hawk, the following measures should be implemented:			
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Action s breeding If construct 15, a construct suitable transmiss the surve the nest zone de work act a qualifit are inde  Operations a Mitigation for avian specie transmission Birds and Oth  B7 Migra migra In order to migratory bir Protection Pl USFWS's guid proponent. for construct	ading and construction within ite should take place outside greason of February 1 to July 1 uction occurs between February audified biologist shall contion clearance survey for nest nesting habitat (e.g., takion towers) that occurs within area will be flagged, and a 5 lineated, flagged, or otherwise twitty may occur within this buffed biologist determines that appendent of the nest.  Ind Maintenance Impact Mitigator potential impact to raptor es due to collision with the lines are discussed below in the Sensitive Non-migratory Specitory Birds and Other Sentory Birds and Other Sentory Birds and raptors, an Avanan (ABPP) will be prepared elines and then implemented If this ABPP will outline conservation and O&M activities that iteracts to bird populations and weaters to bird populations and weaters and the populations and weaters and the populations and weaters to bird populations and weaters and the populations and weaters to bird populations and weaters and the populations and weaters and the populations and weaters to bird populations and weaters and the populations and weaters and the populations and weaters and the populations and weaters are the populations are the populations and weaters are the populations are the popula	e the raptors' 5. ary 1 and July duct a pre- ting raptors in all trees or n 500 feet of est is located, 00-foot buffer e marked. No ifer area, until the fledglings  ation rs and other ne proposed B7 Migratory icies.  nsitive Non- et impact to vian and Bat following the by the Project tion measures might reduce	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			input from the Construction Construction into the ABPP  Minimizin may be practica species. Clearing which er not be of February shall confor nesti occurs we construct migratory non-migractive measure activities appropriand nest may leaforaging  A biolo vegetatic behavior	Measures conservation measures to be	incorporated  In where birds  Iximum extent  Iximum	
Droposed Action DA	Alternative 1 Alternative	Alternative 2 Altern				Action/No
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			avoid di and their and their the pote foraging Minimize that may owl.  Control of change make or alter the other no species for apply Al (APLIC 2) other me	to stop or redirect construction rect and indirect impacts to ryoung. wildfire potential. This measu ential for direct impacts to bird	on activities to nesting birds are minimized ds and loss of and predators and predators are plants can in ways that ans adverse or a by favoring the with a bird archead utilities mmended or ity of the lines	
			Operations at Operations at be incorpora  Preparation increase surround Incorporation appropries			
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation	
			<ul><li>calls for I</li><li>Minimize detectin</li><li>Impleme</li></ul>	noise, which can drown out mating or other purposes. use of outdoor lighting that g prey easier for predators. ent post—construction avian morporate the Wildlife Mortal	t may make		
			migratory bir Proposed Ac The ABPP is i	e above measures address d species that may be introc ction's construction and opera ntended to be a comprehen avoid and minimize project in	duced by the ations phases.		
			The proposed of ACE jurisdictional in temporary im	dictional Waters of project will impact total of uplictional resources, and 7.2 acresources. A breakdown of perpenting as well as the mitigation mpacts are shown for all of the 1-15.	cres of CDFG ermanent and on required to		
			Mitigation for these impacts will be conducted in concert with the purchase/acquisition of compensatory habitat as detailed in Mitigation Measure B1. As the acreage for FTHL mitigation well exceeds the amount required for impacts to CDFG resources, it is not anticipated that additional mitigation would be necessary as long as the FTHL mitigation meets the				
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative		
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE	

Environmental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
1 Implementation of Alternative 1 Alternative		mitigation for Impact to jur require a per and a Section the RWQCB. Alteration Ag for impact to	and approval of CDFG jurisdictional resources.  risdictional waters of the U.S. rmit under Section 404 CWA on 401 state water quality cer In addition, a Section 160 reement would also need to CDFG resources.	on-site would from the ACE tification from 00 Streambed be authorized	LTC
1 Implementation of Alternative 1-Alternative Transmission Line Corridor would impact vegetation communities, sensitive species, and jurisdictiona waters.	n	the Proposed Alternative 1- alternative was 19 Vege Mitigates white Mitigates with 19 Mitigates	ation acres. Table 4.12-16 ation ratio/requirement a ation for each vegetation cor ailed Horned Lizard Habitat Corcordance with the Flat-tailed gewide Management Strate.	ented for the Corridor, if this and temporary arr sage scrub, esquite thicket agh required identifies the and required mmunity. Expensation Horned Lizard gy, mitigation rations and for impacts to ation Measure a Alternative 1-	LTS
Proposed Action = PA  Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environn	nental Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
	Alternative 2-Alternative idor would impact vegetation e species, and jurisdictional		the Proposed Alternative 2- alternative with B11 Vege Mitig impa dese shall mitig mitig mitig mitig mitig mitig mitig Flat-t In accase for Main FTHL B3. Altern Table B13 Jurisd jurisd permithe rich state of the corrier of the correct of the corre	ation acres. Table 4.12-18 ation ratio/requirement aration for each vegetation contailed Horned Lizard Habitat Contailed Horned Lizard Habitat Contailed Management Stratego Construction and Operatenance would be required for habitat, as discussed in Mitigat Compensation specific to the mative Transmission Line Corrider 4.12-19. Contailed a dictional Resources Compensation will impact total of 1.1 at dictional resources, and 7.7 and dictional resources. A brown annual management and temporary impact mitigation required to offset to shown for all of the alternation.	ented for the Corridor, if this and temporary arr sage scrub, squite thicket gh required identifies the nd required identifies and identifies and for impacts to atton Measure Alternative 2-lor is shown in attion in the identifies in the identifies of ACE cres of CDFG eakdown of cts, as well as hese impacts	LTS
Proposed Action = PA		Alternative 2 - Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unavo	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			cond mitiga Meas well e CDFC addita long requi	ation for these impacts will be tert with the purchase/ation for FTHL as detailed sure B3. As the acreage for Fexceeds the amount required G resources, it is not antitional mitigation would be as the FTHL mitigation rements and approval of CDFG ation for jurisdictional resource	cquisition of in Mitigation IHL mitigation for impacts to cipated that necessary as meets the G and ACE as	
3 Implementation of Alternative 3-Reduced Solar Energy Facility Site would impact vegetation communities, sensitive species, and jurisdictional waters.			the Proposed Alternative 3 alternative we B14 Vege Mitigation Mitigation Mitigation Mitigation Main FTHL species	ation acres. Table 4.12-21 ation ratio/requirement an ation for each vegetation comailed Horned Lizard Habitat Concordance with the Flat-tailed gewide Management Strateg	ented for the ty Site, if this and temporary or sage scrub, squite thicket gh required identifies the end required inmunity. In the end required in the end required end in the end in t	LTS
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmen	tal Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
NA No new development i Action/No Project Alte significant impact would o	ernative. Therefore, no occur.		No mitigation	recommended.		NE
construction of the so transmission lines as a resulution activities; excavations; unauthorize materials; dislodging of environment (fossils out of damage of fossil speciment).  No impacts to paled	s potentially located on the adversely affected during olar energy facility and all of disturbance by grading unauthorized, unmonitored ed collection of fossifossils from their preserved context); and/or physical		paleontologic project site. subsequent in with the BLM' of Potential In A. Defin pedestrian is significant for boundary ar disturbance, significant for A paleontol "significant" with the billustrates Provides Provides Encomparts fossil or for Contains assembla Occupie Occupie	ading or any ground discal field survey shall be conditional field survey shall be conditional field monitoring activities shall be in a survey of a field surveys. Field surveys to be performed in assils can be expected to occord immediate vicinity of the or where the probability of a sils is unknown.  Itogical resource or site is where it meets any of the following a geologic principle a critical piece of paleobiologicals assess any part of a "type locormation a unique or particular age of fossils is a unique position, proximal within a formation's extent or displacements.	ucted for the survey and accordance and Mitigation burces."  Surveys are areas where cur within the enticipated encountering  considered wing criteria: or regionally gical data cality" or of a arry unusual ically lly, distally or	LTS
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1				Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unave	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			disturbing the projet any staki any	eys shall be performed by ontologist holding a ontological Resources hission of reports may be do paleontologist to the BLM. It is also responsible ciated with the survey, it is also paleontologist's fees are ey costs, fossil preparation tification stage, analyses, tion costs directly related to project's anticipated impacts. It is it is in the project propers are to be negotiated between the paleontologist and these negotiated work, and these negotiating it is it in the project propers are to be negotiated between the paleontologist and the consulting to beginning any data gather and the consulting to beginning any data gather it is it in the paleontologist and the paleontologist and the paleontologist and the paleontologist and esitory must be in place prior to	g field surveys, s possible and mplete. BLM-permitted the project a consulting valid BLM Use Permit. ne directly by The project for all costs ncluding the nd charges, all to the basic reports, and mitigation of Any required are also the onent. These en the project paleontologist ering, analysis, ations do not val. Any new, in agreements d the official	
Proposed Action = PA  Less Than Significant = LTS	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1 Significant = S	Alternative 2 – Alternative 2 – Alternative 2 – Alternative 2 – Alternative Clyw-1)  Significant and Unaversity	= 2	Alternative 3 - Reduced Solar Energy Facility Site = 3 No Effect = NE	Alternative 4 – No Project Alternative Beneficial Effect =	e = 4

Environme	ental Effects	Level of Significance Before Mitigation			Mitigation Measures		Level of Significance After Mitigation
			B.	be Performents submapping must the following Conduct performents approve the following Paleonto and collowing are not but are paleonto destructi scientific utilized dan imposhould in non-reinfother und 1. The siscale 2. At in	provided in the survey of the survey of the survey of sulting paleontologist or Blanission of the report DOES Not the activity to proceed the review the report, including field methods and findings. The review the report, including field methods and findings. The review the need for monitor the remains the need for monitor the review the principal Investigation of the Section of the Secti	paleontologist. Peither by a LM staff, or OT constitute Ped. The BLM Padequacy of The Authorized Ped. The BLM Padequacy of The Authorized Ped. The BLM Padequacy of The Authorized Ped. The BLM Padequacy of The BLM Padequ	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)			Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable	e = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Field office After may emade discretive emede other pale information restriction restriction restriction for a surver pale proper distance (a) 10 cm of the control of the	r an initial visit each year, the process of contact the Field Office by all prior to subsequent field retion of the Field Office. Informative pertinent data shall be processed from the paleontologist of any contology Coordinator. The Field method process of the paleontologist of any control pertinent data shall be processed in the paleontologist of any control pertinent the survey, such as factions, drought restrictions, vactions, management restrictions or construction, and want information.	visit to that caleontologist telephone or trips, at the mation about al personnel, tion, and any ovided to the eld Office will onditions that fire danger or wildlife timing ctions, road d any other caleontologist cuments all 00 feet of the orridor, or less ical resources one does not amage. All damaged or vities must be ant contextual ecimens must ey or prior to	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unavo	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			(b) I	activities.  In many cases, isolated gar scall (turtle) carapace or plastro crocodile and fish teeth, and bone fragments do not recollected. The location must and a description of the finoted in the field notes and Locality Form as part of the context of these types of fost considered, as they may recocurrences or unusual fauna and thus may be scientificated and must be documented specimens collected where appropriated and prevamples or voucher specimes where appropriate. Addition measures may be appropriated as for these types of localitical firms and the specimen or a consignificant fossils is located dusurvey, the available time and may not allow for full recovers survey. The specimen(s) and should be stabilized as need determination made as avoidance is necessary or recovery of the specimen is a later time prior to disturbance.	on fragments, unidentifiable need to be be recorded fossil material d on a BLM report. The sils should be expresent rare I associations, ally important and voucher expropriate. It is the presentative ens collected nal mitigation ate in some es. In centration of uring the field disorder, and a to whether whether full required at a	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	- BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			4. Duri a li substand mor made whee surfarece type of a surfarestr time.  C. Report of field sur report whee surfarestr meeter time.	e of planned disturbance, such a trenching operation or the ace disturbance. The ground is visible. Biolicitions, such as critical nestires, may confine or delay field a of Survey Findings. After comvey, the paleontologist must with the BLM and the designat out must summarize the results	on alternatives for recovery, on as possible. is selected for the stabilized, the fossils and the measures werse effects as that exhibit probability of the recorded, the fossils and the measures werse effects as that exhibit probability of the recorded, the formulation of the sting shall be include areas bund on the the size and the acreage of the during times of the during times of the file a written the difference of the file a written the size and the file a written the file a written the size and the file a written the size and the file a written the size and the file a written the file a written the size and the	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			recommendation report for during properties approved for those less pale of the report of the report of the report of the second	d below. It should also endations for on-site monito n. The time frame for subnor large projects should be roject scoping. On a case-kill to begin project activities may portions of the project area ontologically sensitive prior to port.  The time frame for subnor large projects should be roject scoping. On a case-kill to begin project activities may portions of the project area ontologically sensitive prior to port.  The project manager of Author appropriate, the Paleontological Paleontologist, and early of the BLM's "Ground information must be alternation and details as specifical trachment 1 of the BLM's "Ground information of Potestaleontological Resources", as a set locations of fossil localities are reports are considered sensitive included in any public do locality form (8270-3) or equivalent mation containing specific for the bound separately or the potential potential section to allow for projects are allow for projects area allow for projects area allow for projects area a	ring or other nission of the enegotiated by-case basis, by be granted noted to be final approval gs and the submitted to corized Officer ogy Lead or each affected include the ed on page 9 Guidelines for ential Impacts applicable. Contained in tive and must cument. The alent, 1:24000 and any other ossil locations placed in a reservation of copy of this mitted to the	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	= BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Field must the company of a road according and num. D. Report A the Survey days of or explait to the company the company of a company of a road according and num.	orted as point data. Largulities should be reported using a centroid and a descript roximate size, or the key coor bounding polygon. Linear feats or surveyed project boundarted as line data. The 1:24000 companying the locality for an outline of the locality as be clearly labeled with the locality as	Another copy epository with dards must be ocality data as are often locality data e must be at a must be at a must be an error of +/- at confidence a should be er polygonal g coordinates oftion of the dinate points at tures, such as aries, must be scale map(s) orms should either as a sappropriate, ocality or field er will analyze in 30 working ag the report, as, will be sent I the project	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			possible, and the Any re consider needed affecting procedu before proceed survey, s	ation will be made for the an for major corrections. Deficie g the survey, such as inade res or incomplete data, must granting approval for the . Deficiencies not directly such as curation issues, will I of the project, but must be	working days, for approval. brompt, but mount of time encies directly quate survey be corrected a project to affecting the not prevent	
			Determination of Further Mitigation Requirements. Based on the field survey, the need for additional mitigation to protect paleontological resources shall be determined. The Authorized Officer, in consultation with Regional Paleontologist or the Paleontology Lead, shall analyze the Survey Report for survey findings and any mitigation recommendations. If no further mitigation is needed, the Authorized Officer will promptly notify the project proponent that there is no additional paleontological surveys or mitigation measures required, and the project may proceed pending any other approvals. The project file must be documented indicating acceptance of the survey report and identifying any additional mitigation requirements. If it is determined that additional mitigation efforts are needed to protect or preserve the paleontological resources, the project proponent will be			
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	oon as possible. The Author Alternative 3 - Reduced Solar Energy Facility Site = 3	Orized Officer Alternative 4 - No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	- BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			approve the project be reproponent. significance, be considered Additional minimplemented project action A. Relocation change the field necessital resurveys of this consurvey mathematical including locations change. The revised Authorized avoidance may increcovery barriers	on. The preferred mitigation to the project location based on d survey. Relocation, ho ate a field survey of the new ar s by other resource specialists. contingency prior to or during ay allow for survey of an expa- e time.	ecommend a h the project or specimen ct urgency will on measures. Eveloped and not to delay echnique is to a the results of owever, may rea, as well as Anticipation of the original nded area at acts and is port to the file, I and revised umenting the roceed in the inted by the onent. When the mitigation ection (data, protective)	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)	= 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	e = 4
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			material complete such as assemble recovery beginnin the adverged project project project proceed fossil manda to the fill the recomitigation report singular discovergia valiable relocation.  PR2  Based on the in Mitigation developed a  A monitoring paleontologis current Califor	Fossil Collection. In some may have been identificely collected during the initial a partial dinosaur or other age. It may be possible to be of of this material and all related gronstruction activities, and agree impact. This may require chedule and must be coordinated to the coordinate of the coord	ed, but not all field survey, or large fossil complete the d data prior to thus mitigate a shift in the lated with the ordered. A report documenting to no further eted, and the officer. If the d within the late avoided by sults identified Plan shall be by a qualified who holds a rmit. The plan	
				ropriately scaled to the size ar pated monitoring. If develop		
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			Paleontologis acceptance when the mo Officer. A recommende and must mir 1. The recom collection sampling stratigray Monitoring in of existing da monitoring ef Types of Mor 1) on-site, operations, a after disturbat the project. 1. On-site r for buries site of do occurring time mo the loca will be minimal	cific locations and intensity of precommended for each good phic layer, or area impacted. Itensity is determined based of ata and/or field surveys and forts. Initoring. There are two types of performed during ongoing and 2) spot-checks, performance, or at key times during the monitoring – In areas with a high of fossils, the presence of a maisturbance at all times that of gray be warranted. The negative is based on the findings of geology, and the proposed a made to complete fossil rework stoppage. However, in anded period of work stoppage.	ciency prior to may proceed he Authorized e treatments d disturbance and specimen recovery or monitoring or geologic unit, and the analysis any previous of monitoring: construction ed during or the progress of gh probability nonitor at the disturbance is the d	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			beginnin compan agree o allow for be of ut heavy m	nt or representative is import g the monitoring work, y supervisor, and machinery on procedures for brief work examination of finds. It is critic most concern because of the achinery and open trenches.	the monitor, operators shall stoppages to cal that safety e presence of	
			material steps to Consider also be not be vi appropri recovery Activities be asses significan trenching activities nighttime 2. Spot-che probabil	itor must assess any finds, collection must assess any finds, collection of the size of the expect considered; for example, midistrible during excavation activitiate to collect samples of more of microvertebrate fossils or of planned to occur during night fossils. Fossils may not be vising or grading operations, so may need to be suspensed in sensitive areas.	e appropriate atial damage. ed fossils must crofossils may ies. It may be atrix for later ther analyses. httime should all to uncover ble at night in construction anded during erate to high al, it may be	
			than ma Key time the fossil- to placir Example	propriate to check only at ke intain continuous monitoring of some for scheduling spot-checking bearing bedrock is exposed to a spoil material back into the soft hese key times may trenching operation is complete.	of operations.  ng are when o view or prior e excavation. be when a	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			redistribution close continued the part paleonto some instrain and concent paleonto propone occur, at material.  The part fossiliferor assessment during the standard the stan	pordination with the project propordination with the project propordination with the project propordination with the project propordinate of the project to be available on short and to be available on short and to be advantaged for wind to erode away loost art of the propordinate with the propordinate with the propordinate with the propordinate to conditions, each and construction schedules.  Alternational proportion of the project monitoring.  Alternation project monitoring with the project monitoring with the project monitoring with the project may be a lack of the project may be a lack of the perform all the necessary of the project monitoring with the project mo	king requires opponent and requires the ort notice. In eous to allow the matrix and the visibility. The the project this action to expected fossil to potentially llow for future were located ary to employ personnel fully qualified the project this action to expected fossil to expected the expected for	
Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			performal also the and the condition submitte qualificated applicated the performal separated Field work then sub acceptancellection technique person's Field Moliperforminal also the performinal the sub acceptancellection technique person's Field Moliperforminal also the and the sub acceptancellection technique person's Field Moliperforminal also the and the sub acceptancellection technique person's Field Moliperforminal and the submitted	ent – Other qualified paleon field work independently of the ns of this permit. Résum d to BLM and must tions equivalent to those cents must be listed on the of individual(s) responsibleing, and carrying out field work horized in a separate letter from the letter field work and must came authorizing letter (if used) whick results must be reported to the mit required reports. In the permit work is must be reported to the mit required reports. In the permit work is must be reported to the mit required reports. In the permit work is must be reported to the mit required reports. In the permit work is must be reported to the mit required reports. In the permit work is must be reported to the monitoring gractivities when the PI or a leng field work elsewhere. Field fficient field experience to the letter of the permit work elsewhere is the permit work elsewhere is the permit work elsewhere. Field fficient field experience to the permit work in the permit work elsewhere.	This person is ct proponent tologists may e PI under the és must be demonstrate of Permittees. permit under for planning, " (Permit item om BLM. They and conditions rry a copy of nditions, and ille in the field. The PI, who will be utilized for of surface-Field Agent is Monitors must demonstrate identification, aleontological mary of each to field work. e BLM prior to a copy of the	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			portable phone of near end examina two hour 4. Field Ass the previous may be direct, or Agent as must have experien in identification performing capacity contact field work must be Agent or approprial Agent or project, experien that show ratio, but maximum or Field A. Work Stoppage	mmunication with the Field M communication device, such two-way radio, and are repugh to the Field Monitor to allotion of all fossil discoveries (resaway) by the PI or Field Agersistant – Additional personnel iously cited experience or know utilized during field work, but non-site supervision of either the separt of a supervised crew. For eat least four to eight hours are received from a qualified program of a field work or when first the field work or when field work or	ch as a cell equired to be equired to be ow for prompt no more than not.  not meeting wledge levels must be under e PI or a Field field assistants of training or caleontologist roes prior to utilized in this ints (including diprior to any Field Assistant ne PI or Field apprevision, and per PI or Field apprevision, and the of the factors ing the proper sistants is the sed by one PI is discovered	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alternative Corridor (IVW-1)	ative Transmission	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	- BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			surface disturis completed taken. Effort with minimal an extended If the pale mitigated, or work may read Agent, and soon as possefforts that witigated with concurrence representative obtained. granted from Officer.  PR3 Upon complementation of the design of the design of the details and the details and attachment.	rs have the authority to tender bing actions until an assessment and appropriate protections will be made to complete for work stoppage. However, in period of work stoppage may contological resource can accollected within approximate esume after approval from the Authorized Officer must be sible of the discovery and a swere undertaken. If the find thin a reasonable time (two of the Authorized Office e for a longer work stoppast Work may not resume until a both the PI or Agent and the project proponer in the BLM Locality forms. Reports and information as specified on 1 of the BLM's "Guidelines for on of Potential Impacts to Pass applicable.	ent of the find on measures fossil recovery some cases, be required, be avoided, ely two hours, ne PI or Field on notified as ny mitigation docannot be conducted and cannot be approval is ne Authorized age must include an page 14 of or Assessment	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 - No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	· BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			the signed re are accepted resources re completed. writing as soci consulting w	al report with the specimen in ceipt of confirmation of museud by the BLM, mitigation for palated to the project will be a project proponent will be a possible by the Authorized with the Paleontology Lead at and a copy of the notification.	um deposition aleontological e considered be notified in d Officer after or Regional	
			appropriate completed a Authorized C quarrying, fi considered to of the consuparty. The pr for completic project progresearch. As	cility of the project proponent mitigation related directly to and final approval is received. Officer. Any additional field nall specimen preparation, to be research, and will be the culting paleontologist or anothe oject proponent will not be held on of any research project. It conent can choose to specification of a propose to spec	the project is ed from the d collection, etc. will be e responsibility her approved ld responsible However, the onsor further	
			PR5 Fossil specime lands during property of collected du the approx Paleontologic			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
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Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		consulting paleontologist as soon as practical and receipt(s) of collections submitted to the BLM, but no later than 60 days after all field work is completed. Written approval from the Paleontology Lead or Regional Paleontologist is required if additional time is needed for transfer of all specimens and field data.  PR6 Prior to Project initiation, workers shall be trained on how to identify paleontological resources, and follow the proper procedures discussed in detail in the above	
1 Same as PA.	S	mitigation measures if said resources are located.  Same as PA.	LTS
2 Same as PA.	S	Same as PA.	LTS
3 Same as PA.	S	Same as PA.	LTS
4 No significant impact would occur.	NE	No mitigation recommended.	NE
4.14 Socioeconomic Conditions and Environmental Justice			
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur.	NE	No mitigation recommended.	NE
4.15 Recreation			
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.16 Special Designations			
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur.	NE	No mitigation recommended.	NE
5.0 Cumulative Impacts			
PA The addition of the Proposed Action's trips to the Year 2012 plus cumulative conditions would result in a cumulatively significant impact to the following intersections:  • Dunaway Road at Project Access; • Dunaway Road at I-8 WB Ramp; • Dunaway Road at I-8 EB Ramp; and, • Forrester Road at I-8 EB Ramp.	S	A Mitigation Monitoring and Reporting Program shall be established to determine if the four intersections would operate at unacceptable LOS starting in Year 2012 and beyond annually until the project construction is completed. If unacceptable LOS is documented in Year 2012, then a fair share contribution or payment of applicable Transportation Impact Fee is recommended as the mitigation measure. It should be noted that the fair share participation is based on the project's construction traffic that is significantly higher than the project's traffic after completion of construction.  It should also be noted that the fair share participation is based on the project's construction traffic that is significantly higher than the project's traffic completion of construction (i.e. 285 temporary construction employees vs. 4 permanent operation employees) as follows:  • Dunaway Road at Project Access (Construction = 41.4%, Permanent Emp. = 0.9%);  • Dunaway Road at I-8 WB Ramp (Construction = 22.9%, Permanent Emp. = 0.4%);	LTS

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 - Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects		Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
			<ul> <li>Dunaway Road at I-8 EB Ramp (Construction = 18.3%, Permanent Emp. = 0.9%); and,</li> <li>Forrester Road at I-8 EB Ramp (Construction = 9.8%, Permanent Emp. = 0.2%).</li> <li>If unacceptable LOS is not documented at the four cumulatively impacted intersections based on the mitigation monitoring and reporting program, then the applicant's fair share contribution (based on construction traffic) should be refunded. If the County desires some form of mitigation, then it is recommended that the fair share contribution (based on permanent operation employees) be conditioned.</li> </ul>	
1	Same as PA.	S	Same as PA.	LTS
2	Same as PA.	S	Same as PA.	LTS
3	Same as PA.	S	Same as PA.	LTS
4	No new development is proposed under the No Action/No Project Alternative. Therefore, no significant impact would occur.	NE	No mitigation recommended.	NE

Source: BRG Consulting, Inc., 2010

Proposed Action = PA	Alternative 1 - Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 - Reduced Solar Energy Facility Site = 3	Alternative 4 - No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE